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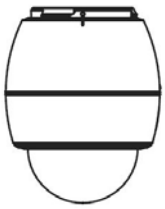
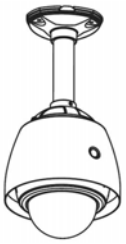
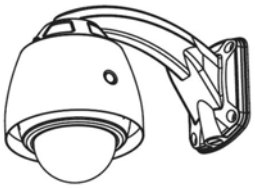
Outdoor Speed Dome Series IP-XNET Ver 1.0

INSTALLATION AND OPERATION MANUAL / ISS2000 Series

(3810-0203A)







This lightning flash with arrowhead symbol is intended to alert The user to the presence of un-insulated "dangerous voltage" Within the product's enclosure that may be of sufficient magnitude To constitute a risk of electric shock to persons.

This exclamation point symbol is intended to alert the user to The presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

⊙ Important Safety Instructions

1. Read Instructions

Read all of the safety and operation instructions before using the product.

2. Retain Instructions

Save these instructions for future reference.

3. Attachments / Accessories

Do not use attachments or accessories unless recommended by the appliance manufacturer as they may cause hazards, damage product and void warranty.

4. Installation

Do not place or mount this product in or on an unstable or improperly supported location. Improperly installed product may fall, causing serious injury to a child or adult, and damage to the product. Use only with a mounting device recommended by the manufacturer, or sold with the product. To insure proper mounting, follow the manufacturer's instructions and use only mounting accessories recommended by manufacturer.

5. Power Source

This product should be operated only from the type of power source indicated on the marking label.

⊙ Precautions

■ Operating

- Before using, make sure power supply and others are properly connected.
- While operating, if any abnormal condition or malfunction is observed, stop using the camera immediately and then contact your local dealer.

■ Handling

- Do not disassemble or tamper with parts inside the camera.
- do not drop or subject the camera to shock and vibration as this can damage camera.
- Care must be taken when you clean the clear dome cover. Especially, scratch and dust will ruin your quality of camera.

■ Installation and Storage

- Do not install the camera in areas of extreme temperature, which exceed the allowable range.
- Avoid installing in humid or dusty places.
- Avoid installing in places where radiation is present.
- Avoid installing in places where there are strong magnetic fields and electric signal.
- Avoid installing in places where the camera would be subject to strong vibrations.

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1. Introduction

⊙ Features

■ Camera Specifications

- Image Pick-up Device: 1/4" Interline Transfer CCD
- Zoom Magnification: 27x Optical Zoom, 10x Digital Zoom (Max. 270x Zoom) → Model ISS2765N(P)
  36x Optical Zoom, 12x Digital Zoom (Max. 432x Zoom) → Model ISS2965N(P)X
- True Day & Night Function
- Various Focus Mode : Auto-Focus / Manual Focus / SemiAuto Focus.
- Each Preset has its own video configuration, label, relay output setting values.
  You can adjust each Preset setting independently.

■ Powerful Pan/Tilt Functions

- Max. 360°/sec high speed pan/Tilt Movement
- Using Vector Drive Technology, Pan/Tilt motions are accomplished in a shortest path. As a result, time to target view is reduced dramatically and the video on the monitor is very natural to watch.
- For jog operation using a controller, since ultra slow speed 0.05°/sec can be reached, it is very easy to locate camera to desired target view. Additionally it is easy to move camera to a desired position with zoom-proportional pan/tilt movement.

■ Preset, Pattern, Swing, Group, Privacy Mask and More...

- Max. 127 Presets are assignable and characteristics of each preset can be set up independently, such as white Balance, Auto Exposure, Label, Digital Outputs and so on.
- Max. 8 set of Swing action can be stored. This enables to move camera repetitively between two preset positions with designated speed.
- Max. 4 of patterns can be recorded and played back. This enables to move camera to follow any trajectory operated by joystick as closely as possible.
- Max. 8 set of Group action can be stored. This enables to move camera repetitively with combination of preset or pattern or Swing. A Group is composed of Max. 20 entities of Preset/Patten/Swings.
- Privacy Masks are assignable, not to intrude on other's privacy. (8 Privacy Zones)
  → Only available with Models (26x)-ISS2465N(P)X, (18x)-ISS2665N(P)X, (27x)-ISS2765N(P) and (36x)-ISS2965N(P)X

■ PTZ(Pan/Tilt/Zoom) Control

- With WEB browser CMS, NVR, cameras can be controlled at the same time.

■ OSD(On Screen Display) Menu

- OSD menu is provided to display the status of camera and to configure the functions interactively.
- The information such as Camera ID, Pan/Tilt Angle, Alarm I/O and Preset can be displayed on screen.

■ Alarm I/O Functions

- 4 alarm sensor inputs and 2 alarm Output relays are available.
- To reject external electric noise and shock perfectly, alarm sensor Input is decoupled with photo coupler and the relay is used for alarm output.
- The signal range of sensor input is from DC 5.0 to 12.0 volts to adopt various applications. Meanwhile, the maximum load of relay contact is 250VAC, 3A or 28VDC, 3A.
- If an external sensor is activated, camera can be set to move to the corresponding Preset position. Meanwhile, the output relay can be matched to some specific preset positions to do counteractions such as turning on the light or sound the alarm.

■ Reserved Presets for Special Purpose

- Most camera characteristics can be set up easily and directly with reserved preset, not entering into OSD menu. For more information, refer to "Reserved Preset" in this manual.

■ Easy Installation and Perfect Outdoor Environment Compatibility

- Fans and heaters are built-in camera for cold and hot temperature environment.
  Also idealistic mechanical design protects camera from water and dust. (IP 66)
- It is easy to install and maintain camera with terminal for cable connection in brackets.

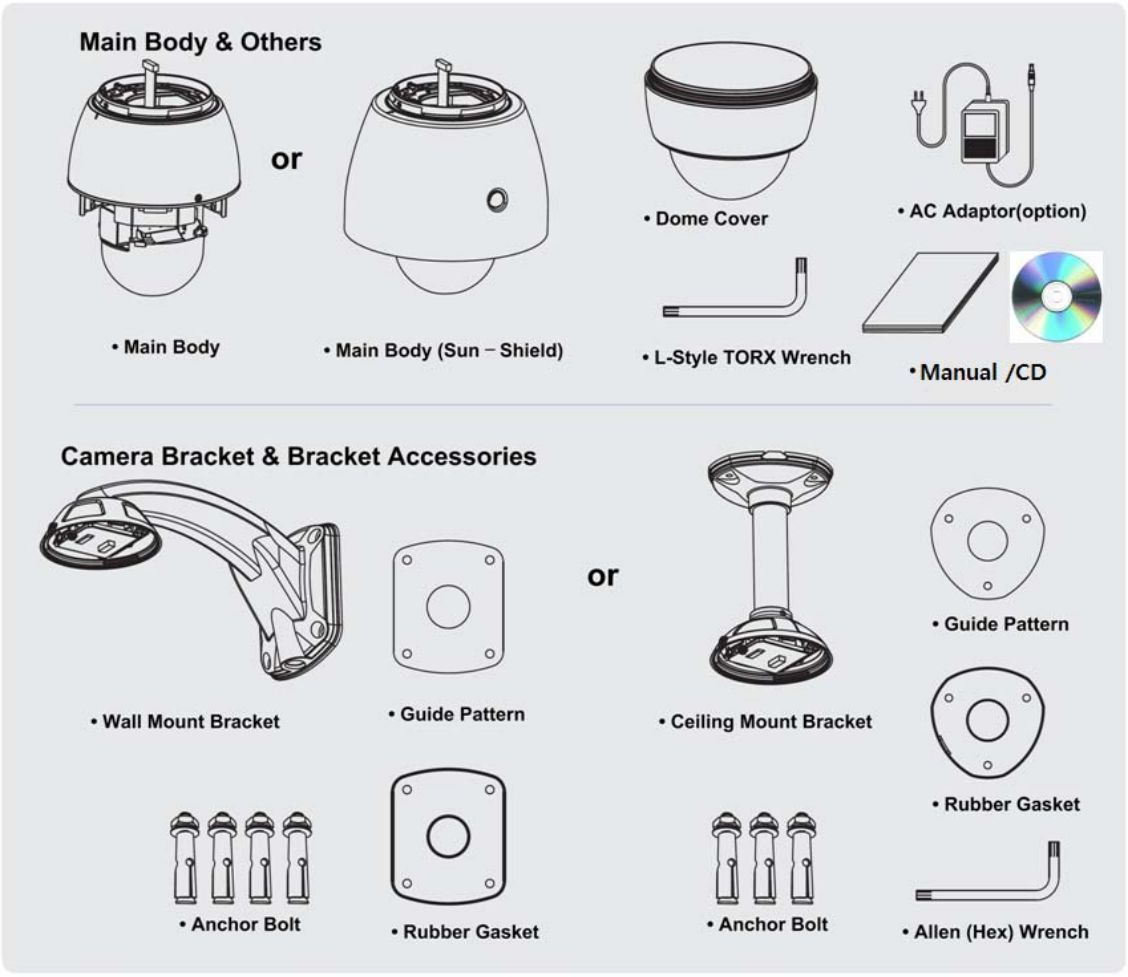
■ IP Network Control

- supported multiple codec with MJPEG /MPEG4 /H.264.

1. Introduction

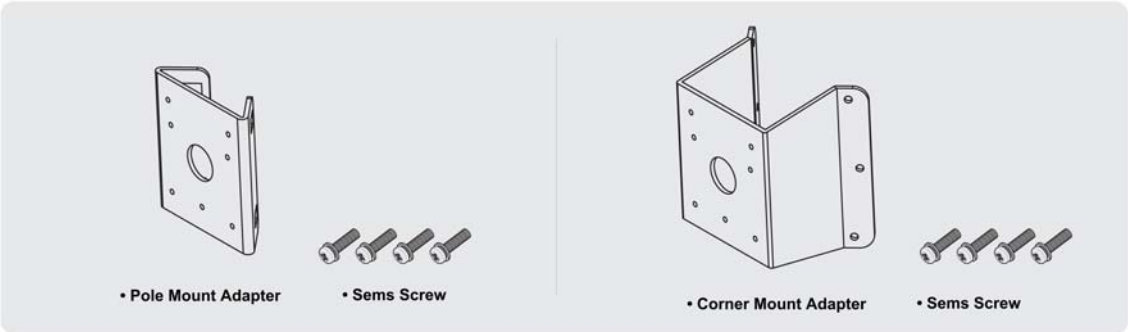
⊙ Product & Accessories

■ Basic Components



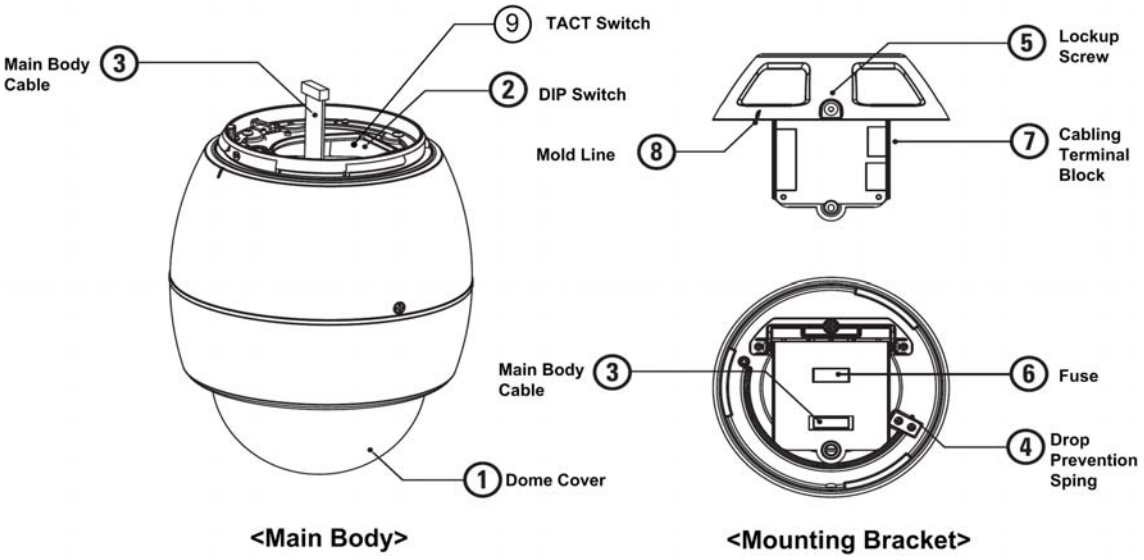
Optional Accessories(May vary by region) -> Adaptor

■ Other Components (available to be ordered separately) ·Manual /CD



1. Introduction

⊙ Parts Name & Functions

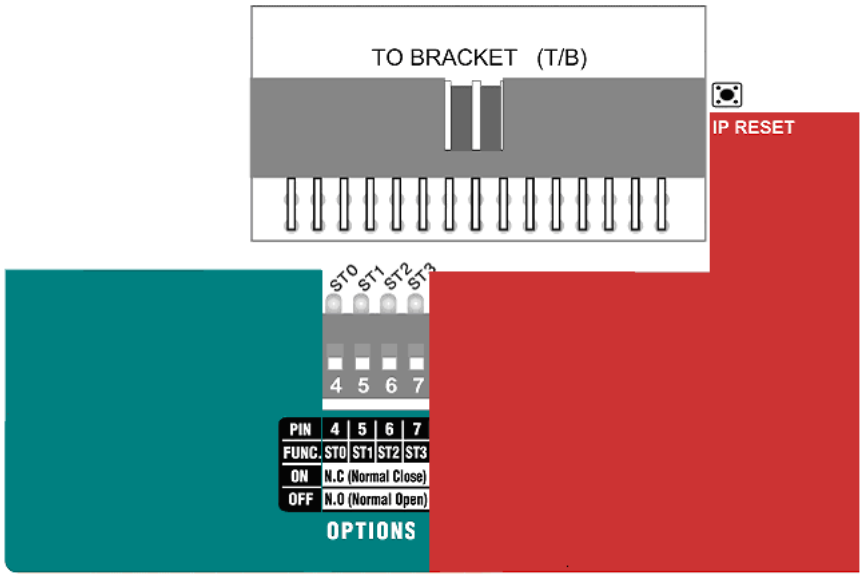


① **Dome Cover**	Do not detach protection vinyl from dome cover before finishing all installation process to protect dome cover from scratches or dust.
② **DIP Switch**	Sets up camera ID and protocol.
③ **Main Body Cable**	Enables signals and power to come and go between main body and mount bracket.
④ **Drop Prevention Spring**	This part keeps the camera from dropping during installation and maintenance. After install the Bracket, please, hang the spring to the drop prevention hook of main body as shown in picture for further tasks.
⑤ **Lockup Screw**	After assembling main body to bracket, screw main body to bracket to protect them from separation by vibration and so on.
⑥ **Fuse**	If the fuse is burnt to protect your came from over-current damage, the fuse have to be replace with new one. The fuse specification is 250V 2A. however, we recommend consulting with supplier to remove the cause of over-current.
⑦ **Cabling Terminal Block**	During installation, Power, Video, Communication, Alarm I/O cables are connected on to this cables terminal block.
⑧ **Mold Line**	Mark to assemble main body to bracket.
⑨ **TACT Switch**	Network Board Factory reset

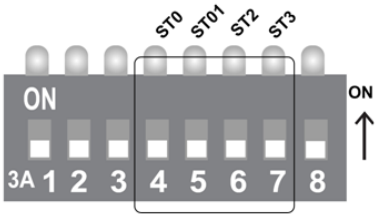
2. Installation

⊙ DIP Switch Setup

■ Before installing the camera, you should set the DIP switches to configure the camera ID, communication protocol. Do not use the system upgrade terminal.



■ Input Sensor Active Type

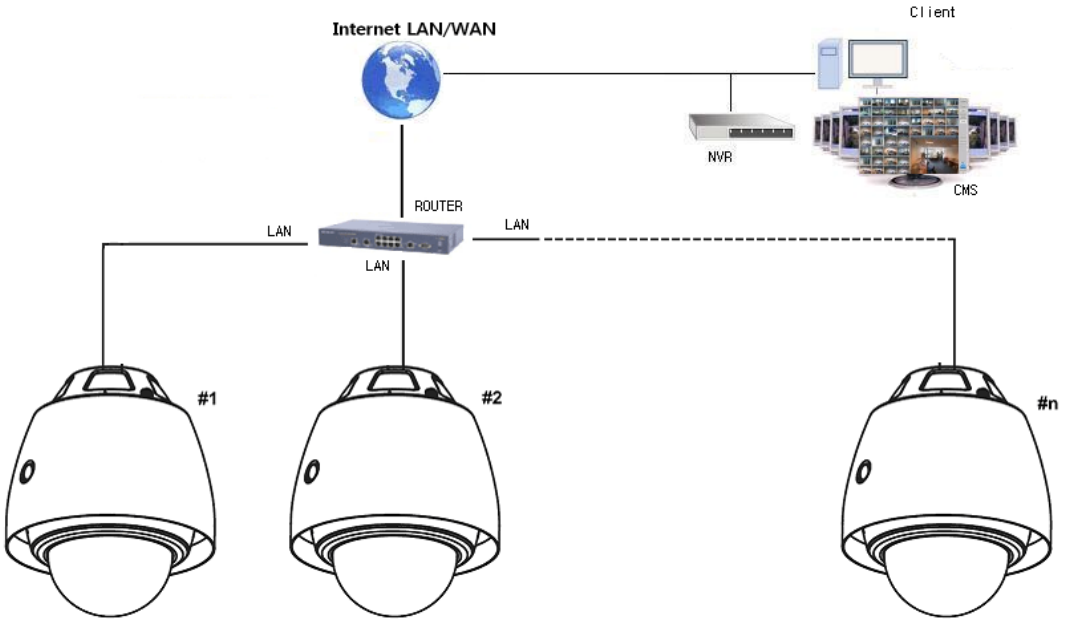


• When a sensor input is used, its functional type should be set.
There are two types; Normal Open type and Normal Close type.
*-**Normal Open** : Voltage is let out when the sensor is activated*
*-**Normal Close** : Voltage is let out when the sensor is not activated*

Pin	Switch position	Sensor type
ST1 (Pin 4)	ON	Sensor 1 Normal Close
	OFF	Sensor 1 Normal Open
ST2 (Pin 5)	ON	Sensor 2 Normal Close
	OFF	Sensor 2 Normal Open
ST3 (Pin 6)	ON	Sensor 3 Normal Close
	OFF	Sensor 3 Normal Open
ST4 (Pin 7)	ON	Sensor 4 Normal Close
	OFF	Sensor 4 Normal Open

• If a wrong type of sensor is selected, it activates in the opposite way to the sensor input.

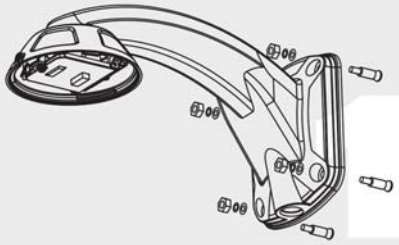
■ General LAN/WAN Configuration



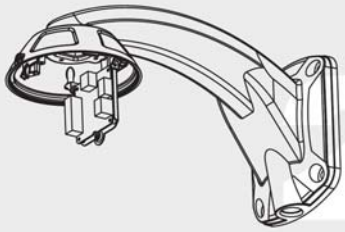
2. Installation

⊙ Installation Using the Wall Mount

① Install Wall Mount Bracket on wall.

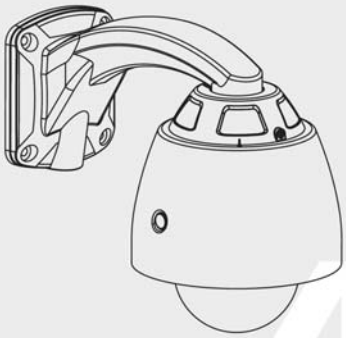


② Wire cables to terminal blocks on the PCB in Wall Mount Bracket.

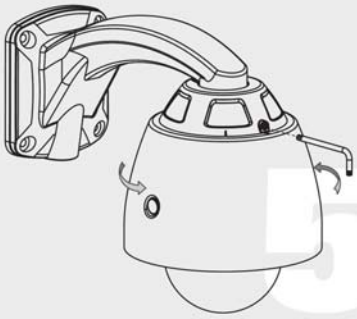


③ Hook up "Drop Prevention Spring" on main body to prevent camera from unexpected drop and connect Main Body Cable to Main Body Connector in Wall Mount Bracket.

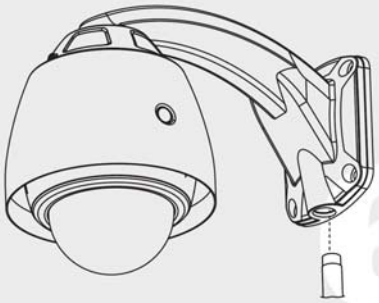
④ Line up the mold lines and assemble main body to Wall Mount Bracket.



⑤ Turn main body on its axis in CW(Clockwise) direction and, after assembling them, screw main body to Wall Mount Bracket to protect them from separation by vibration or others.



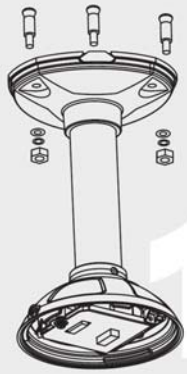
⑥ In case of using pipe, use the hole located on lower side of Wall Mount Bracket to fix pipe.



2. Installation

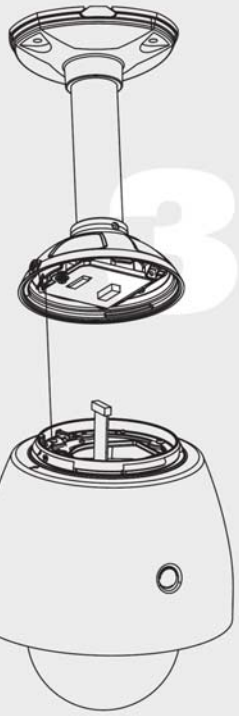
⊙ Installation Using the Pendant Mount

① To pass cables to upside of ceiling, please make a hole with 50~60mm diameter on the ceiling panel and attach the Ceiling mount bracket on it.

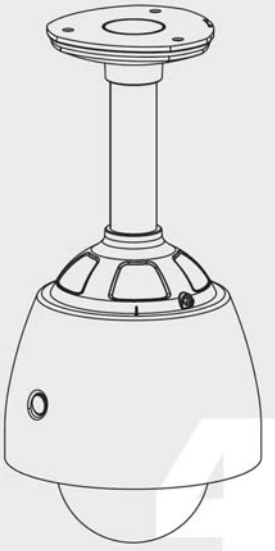


② Wire cables to terminal blocks on the PCB in Ceiling Mount Bracket.

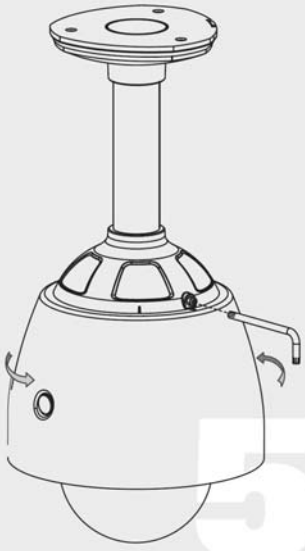
③ Hook up "Drop Prevention Spring"on main body to prevent camera from unexpected drop and connect Main Body Cable to Main Body Connector in Ceiling Mount Bracket.



④ Line up the mold lines and assemble main body to Ciling Mount Bracket.

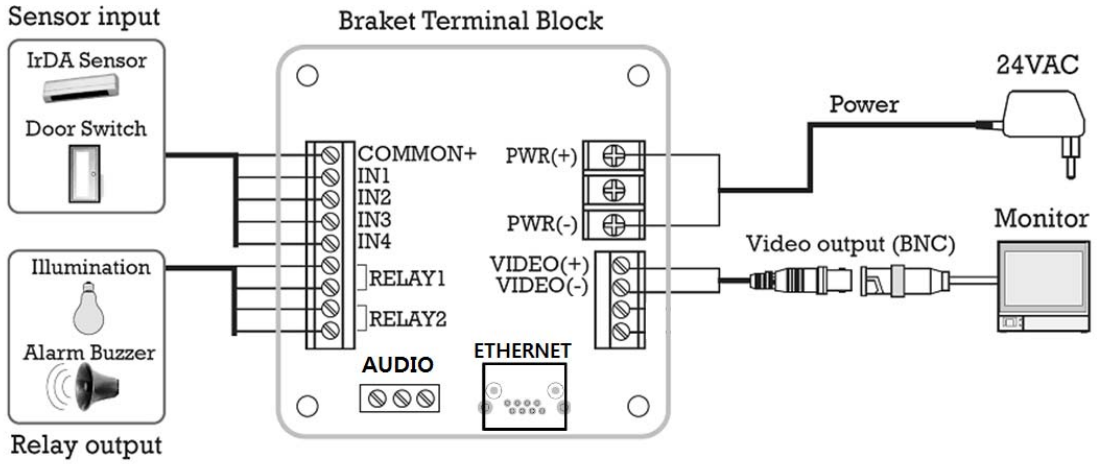


⑤ Turn main body on its axis in CW (Clockwise) direction and, after assembling them, screw main body to Ceiling Mount Bracket to protect them from separation by vibration or others.



2. Installation

⊙ Wire Connections



■ Power Connection

- The standard power for the system is 24VAC / 2A.

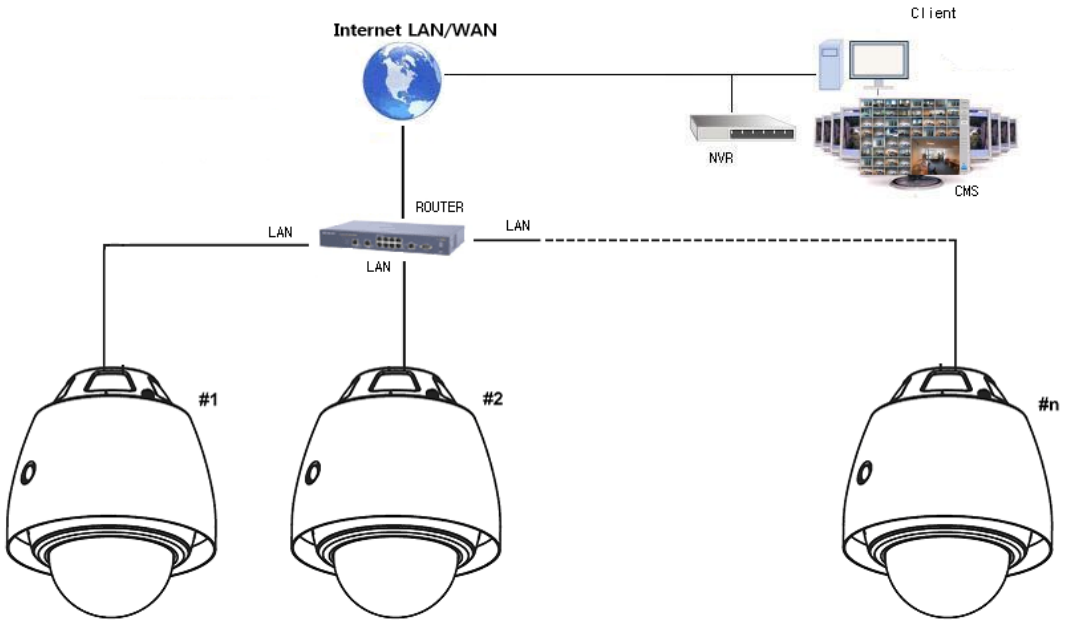
  Please, check the voltage and current capacity of rated power carefully.

■ Video Connection

- Connect With BNC coaxial cable.

■ LAN/WAN Configuration

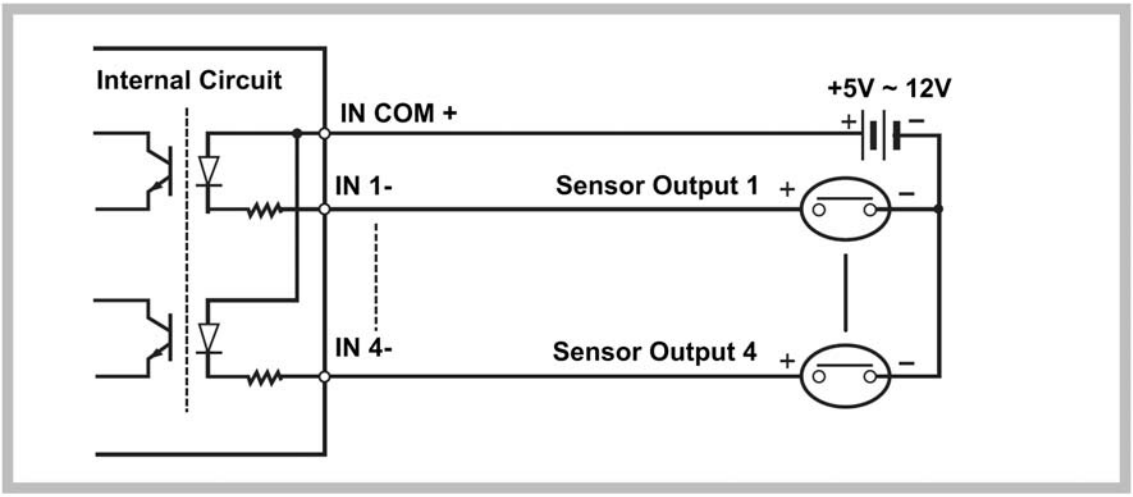
- For PTZ control, connect this line to router. To control multiple cameras at the same time, TCP/IP communication lines of them is connected in parallel as shown below.



2. Installation

■ Sensor Input/Relay Output

- **Sensor input connection**



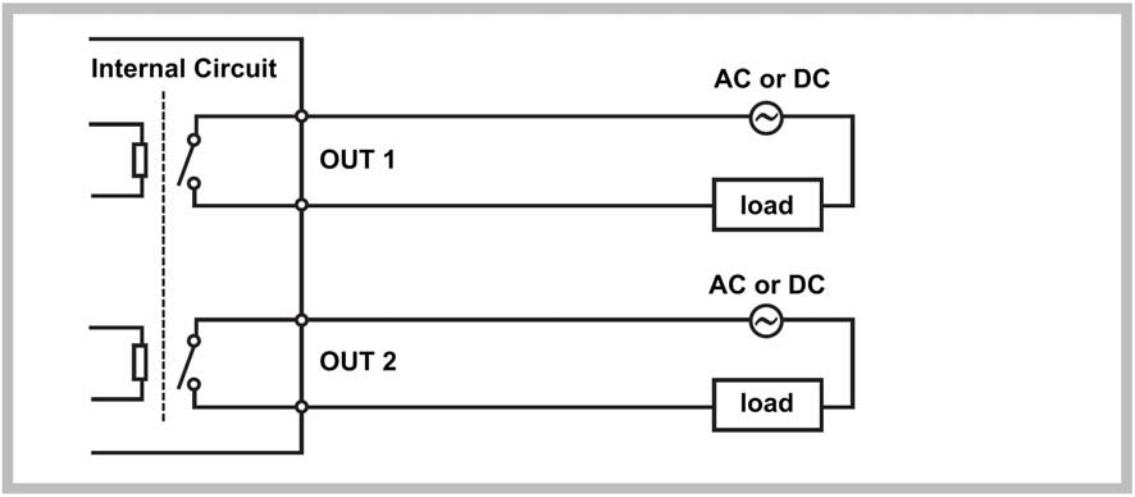
Before connecting sensors, check driving voltage and output signal type of the sensor.

Since output signal types of the sensors are divided into Open Collector and Voltage Output type in general, the cabling must be done properly after considering these types.

Also, the sensor type, i.e. "Normal Open" or "Normal Close" in DIP switch in main body of camera must be set properly.

Signal Line	Description
IN COM+	Connect(+)cable of electric power source for sensors to this port as shown in the circuit above.
IN1 -, IN2 -, IN3 -, In4 -	Connect output of sensors for each port as shown in the circuit above.

- **Relay output connection**



Maximum allowable electrical load of relay is shown bellow table.

Driving Power	DC	110VAC	220VAC
Max. Capacity	28VDC, 3A	110VAC, 3A	250VAC, 3A

3. Operation

⊙ Check Points before Operation

- Before power is applied, please check the cables carefully.
- If you changed camera protocol by changing DIP switches, the change will be effective after you reboot the camera.

⊙ System Control

• Logging On

You can log on as an administrator using either Internet browser or 'CMS' software.

(This manual will describe about using Internet browser only.)

• Using Internet Explorer

Type the IP Address of the XPEED-XNET product in the address bar and press enter.

Ex) : **http://192.168.123.100**

If the HTTP port has been changed from the default value, enter the new port as shown below:

IP Address of the XPEED-XNET: Port No.

Ex) : **http://192.168.123.100:8080**

• ID and Password

If you are logging in as an administrator, the Log-In box will appear as shown in figure 3-1.

Basic Setup page will appear when you enter id and password.

The default user name and password is "**root**" and "**admin**" respectively.

For security purpose, it is recommended to change the administrator's id and password from their default values. Please be careful not to forget them or expose them to others. Please refer to [figure 5-5] for detail.

If you forget the administrator's password, "Factory Reset" is the only way to regain access. However, since this will retrieve all default settings, you need to configure the network settings using IP installer software again.

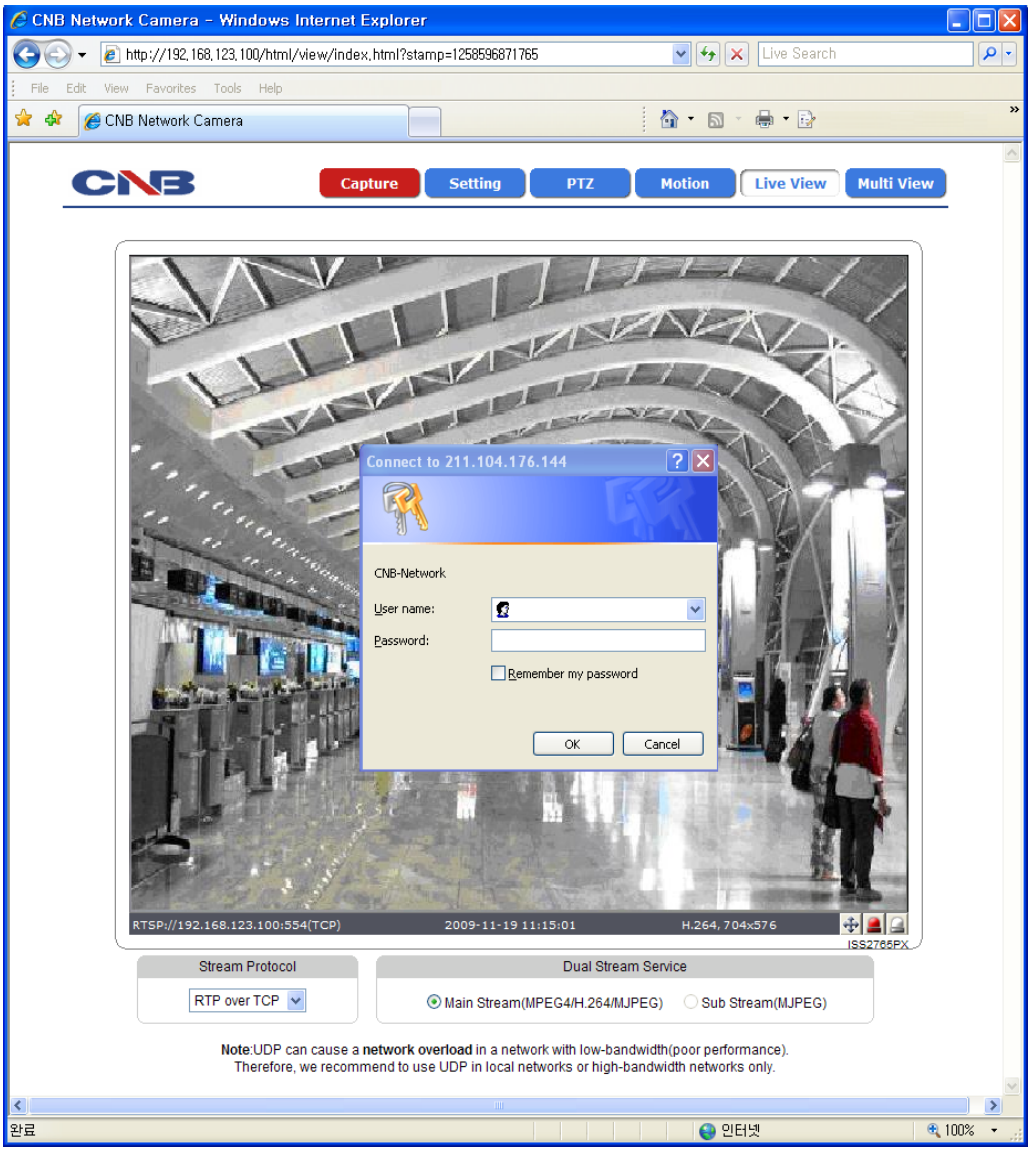


Figure 3-1 Log-in window

· Configuring PTZ

This configures XPEED-XNET's PTZ information,

Click [▷ **PTZ Configuration**] to open the page shown in Figure 3-2.

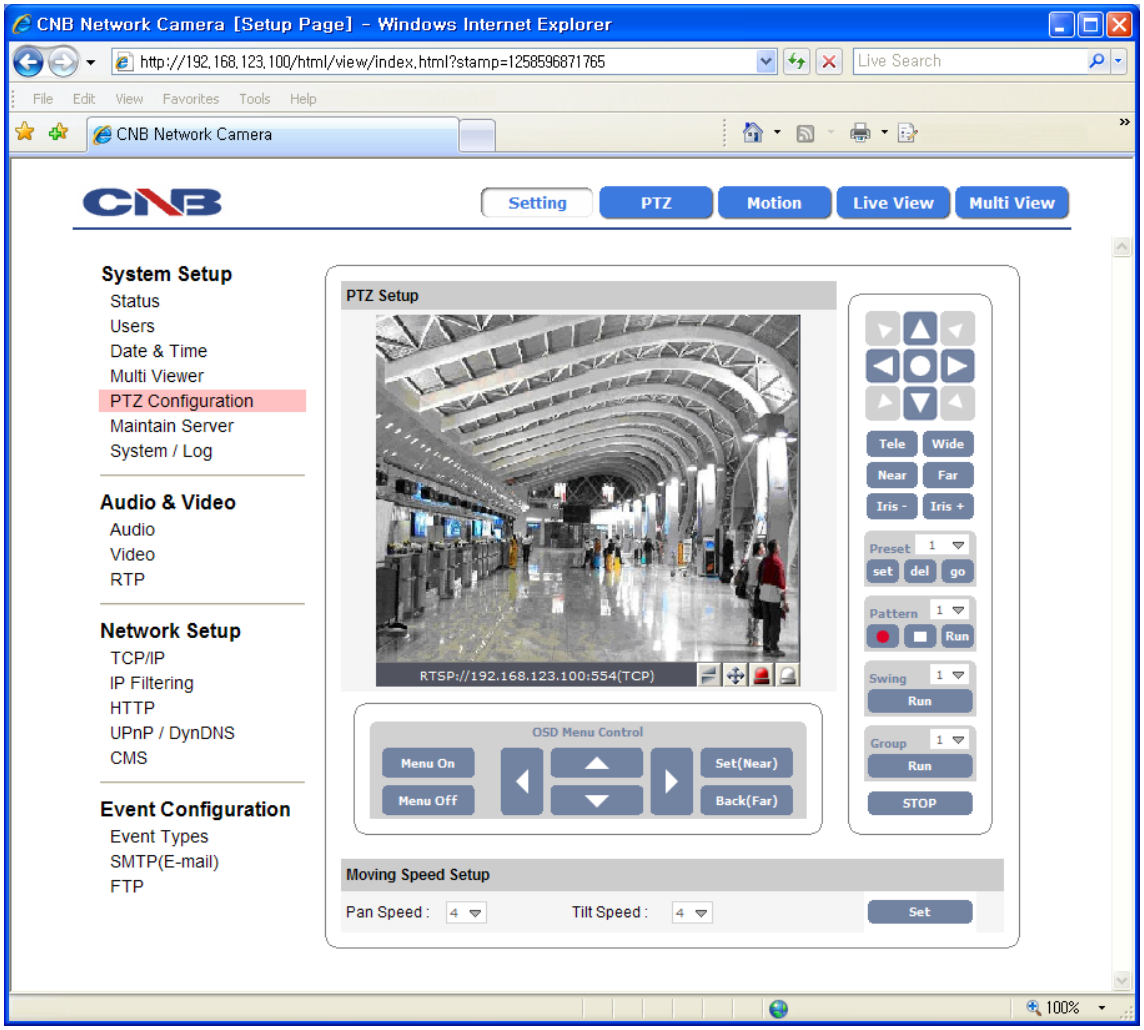
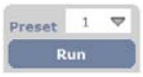
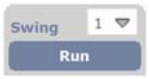
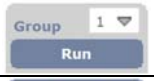


Figure 3-2 PTZ Configuration

Field	Sub Field	Description
	Direction Key	This moves the viewable area within the active CCD region. From the center, it can be moved two click positions in the the positive/negative x/y direction. This button moves origin point.
	Tele/Wide	When push Tele button, camera go Zooms In. When push Wide button, camera go Zooms Out.
	Near/Far	When push Near button, camera go Focus In. When push Far button, camera go Focus Out.
	Iris-/Iris+	When push Iris- button, camera go to close the IRIS. When push Iris+ button, camera go to open the IRIS.
	set	Saves the current position to the values in the Preset Edit box.
	del	Deletes the current position to the values in the Preset Edit box.
	go	Moves the PTZ to the defined Preset position.
		Start to save for Pattern.
		End to save for Pattern.
	Run	Runs Pattern.
	-	Runs defined Swing.
	-	Runs defined Group .
STOP	-	Stops running the Pattern, Swing, and Group.
		Menu On : Displays camera OSD menu in screen. Menu Off : Displays off for camera OSD menu. Move or change a OSD item in OSD menu. Set(Near) : set selected menu function. Back(Far) : cancel and move to selected menu function.
Moving Speed Setup	Pan Speed	Select the Pan Speed of PTZ.
	Tilt Speed	Select the Tile Speed of PTZ.
	Set	Set : Applies and Saves selected Pan/Tilt's Speed .

- **Configuring and operating Network PTZ**

This controls XPEED-XNET's PTZ.

Click PTZ button in operator mode to open the page shown in the Figure 3-3.

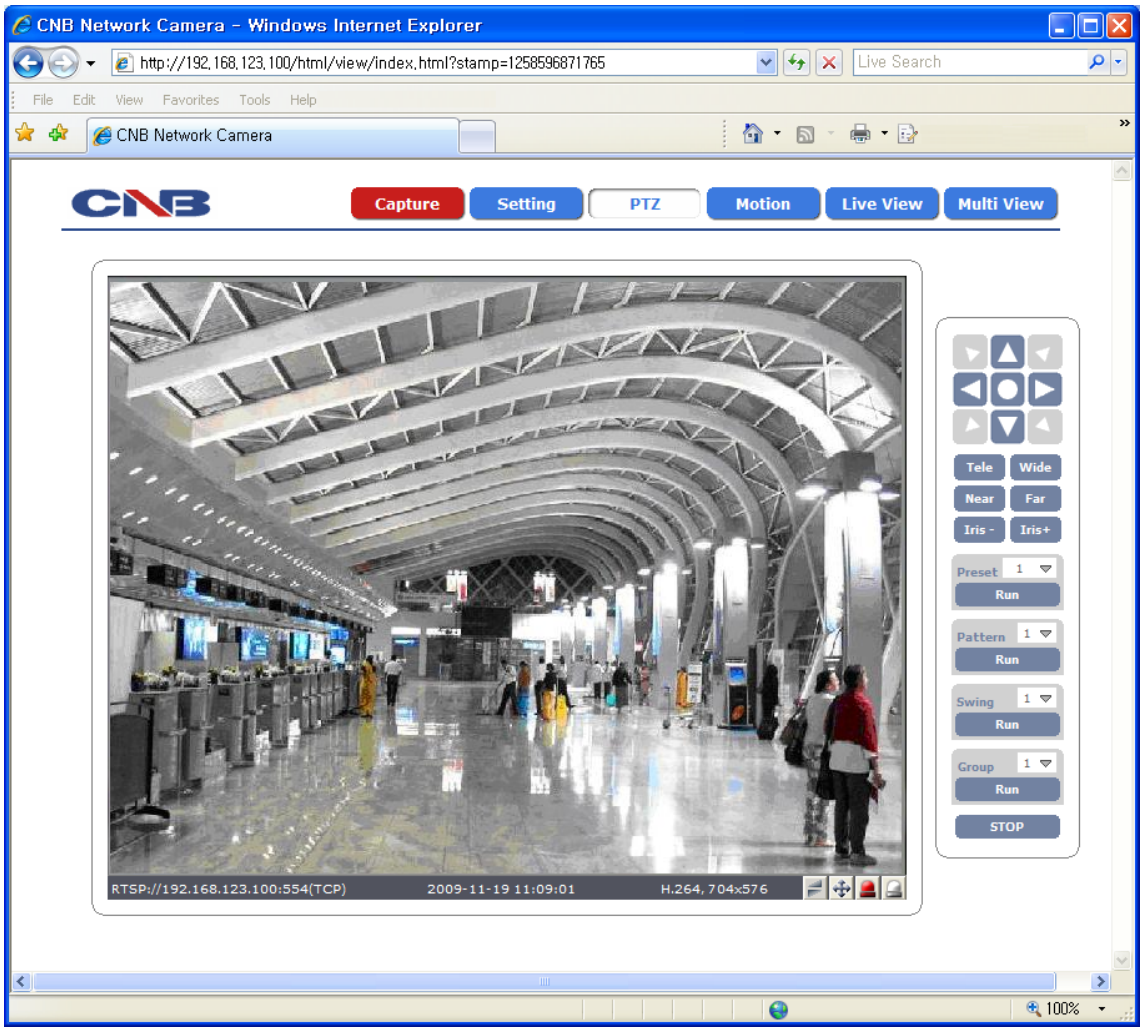
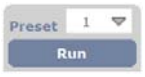
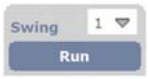
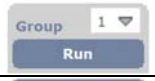


Figure 3-3 Web Viewer Page

Field	Sub Field	Description
	Direction Key	This moves the viewable area within the active CCD region. From the center, it can be moved two click positions in the the positive/negative x/y direction. This button moves origin point.
	Tele/Wide	When push Tele button, camera go Zooms In. When push Wide button, camera go Zooms Out.
	Near/Far	When push Near button, camera go Focus In. When push Far button, camera go Focus Out.
	Iris-/Iris+	When push Iris- button, camera go to close the IRIS. When push Iris+ button, camera go to open the IRIS.
	set	Saves the current position to the values in the Preset Edit box.
	del	Deletes the current position to the values in the Preset Edit box.
	go	Moves the PTZ to the defined Preset position.
		Start to save for Pattern.
		End to save for Pattern.
	Run	Runs Pattern.
	-	Runs defined Swing.
	-	Runs defined Group .
STOP	-	Stops running the Pattern, Swing, and Group.

- **OSD menu selection**

  - This page setups Preset, Pattern,and Swing, and Group of PTZ general functin or select Alarm I/O using OSD menu.
  - OSD ON/OFF : Click Menu On/Off button in OSD menu of control group at this page.
  - OSD Cursor : Using arrow button in OSD Menu Control Tab, moves OSD menu cursor.

Figure 3-4 OSD menu selection

3. Operation

⊙ Preset and Pattern Function Pre-Check

- Check how to operate preset and pattern function with web viewer or CMS in advance to operate camera function fully when using web viewer or CMS.
- Refer to the following table.

<Go Preset>	Input[Preset Number] and press [Preset go] button.
<Set Preset>	Input[Preset Number] and press [Preset set] button.
<Run Pattern>	Input[Pattern number] and press [Pattern run] button.
<Set Pattern>	Input[Preset Number] and press [Pattern red] button.

⊙ Starting OSD Menu

- Function : Using the OSD menu, Preset, Pattern, Swing, Group and Alarm I/O function can be configured for each application.
- Enter Menu : press Munu On Button in setting Web page

⊙ Preset

- **Function** Max. 127 positions can be stored as Preset position. The Preset number can be assigned from 1 to 128, but **95** is reserved for starting OSD menu.
  Camera characteristics (i.e. White Balance, Auto Exposure) can be set up independently for each preset. Label should be blank and Relay Outputs should be set to OFF as default. "Camera Adjust" should be set "GLOBAL" as default. All characteristics can be set up in OSD menu.

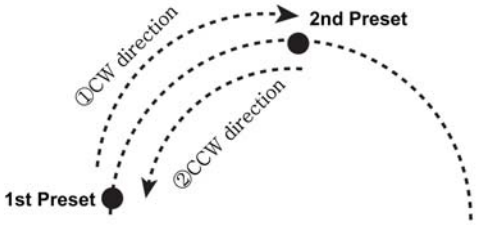
- **Set Preset**

<**Set** Preset> [1~128]

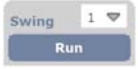
- **Run Preset** <**Go** Preset> [1~128]
- **Delete Preset** To delete Preset, use del **del-button** or OSD menu

⊙ Swing

- **Function** By using Swing function, you can make camera to move between 2 Preset positions repeatedly.
  When swing function runs, camera moves from the preset assigned as the 1st point to the preset assigned as the 2nd point in CW(Clockwise) direction. Then camera moves from the preset assigned as the 2nd point to the preset assigned as the 1st point in CCW(Counterclockwise) direction.



  In case that the preset assigned as the 1st point is same as the preset assigned as the 2nd point,
  Camera turns on its axis by 360° in CW(Clockwise) direction and then it turns on its axis by 360° in CCW(Counterclockwise) direction. Speed can be set up from 1°/sec to 180°/sec
- **Set Swing** To set Swing, use OSD menu
- **Run Swing**



<**Run** Swing> [1~8]

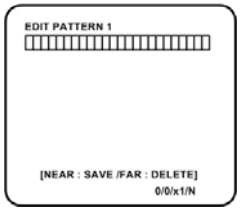
- **Deleting Swing** To delete Swing, use OSD menu.

⊙ Pattern

- **Function** Pattern Function is that a camera memorizes the path (mostly curve path) by joystick of controller and preset move functions for assigned time and revives the path exactly as it memorized.
  4 Patterns are available and Maximum 1200 communication commands can be stored in a pattern.

- **Setting Pattern** Pattern can be created by one of following two methods.

  Method 1) <Set Pattern> [Pattern NO.]
  - Pattern editing screen is displayed as bellow.
  - Movement by Joystick and preset movement can be memorized in a pattern.
  - The rest memory size is displayed in progress bar.
  - To save the recording, press **NEAR** key and to cancel, press **FAR** key.



  Method 2) Using OSD Menu : See the section "how to use OSD Menu".

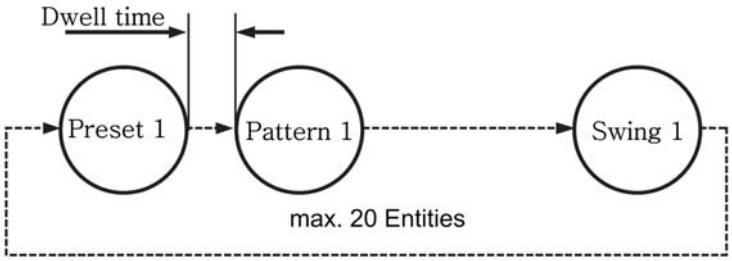
- **Run Pattern**

<**Run** Pattern> [1~4]

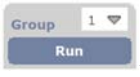
- **Delete Pattern** Use OSD menu to delete a Pattern.

⊙ Group

- **Function** The group function allows running sequence of Presets, Pattern and/or Swings. Max. 8 group can be stored. Each group can have max. 20 action entities which can be preset, pattern or swing. Preset speed can be set up and the repeat number of pattern & Swing can be set up in Group setup.
  Dwell time between actions can be set up also.



- **Setting Group** Use OSD Menu to create a Group.
- **Run Group**



<**Run** Group> [1~8]

- **Deleting Group** Use OSD Menu to delete.

3. Operation

⊙ Other Functions

- **Power Up Action** This function enables to resume the last action executed before power down. Most of actions such as Preset, Pattern, Swing and Group are available fort his function but Jog actions are not available to resume.

- **Auto Flip** In case that tilt angle arrives at the top of tilt orbit(90°), the zoom module camera pans180° to keep tracing targets.
  If this function is set to OFF, tilt movement range is 0~95°

- **Park Action** This function enables to locate the camera to specific position automatically if operator doesn't operate the controller for a while. The park Time can be defined as an interval from 1 minute to 4 hours.

- **Alarm I/O** 4 Alarm Inputs and 2 Alarm Outputs (Relay output) are used. If an external sensor is activated, camera can be set to move to corresponding preset position. Also, the output relay can be matched to some specific preset positions to do counteractions such as turning on the light or sounding the alarm.
  It is noted that the latest alarm input is effective if multiple sensors are activated.

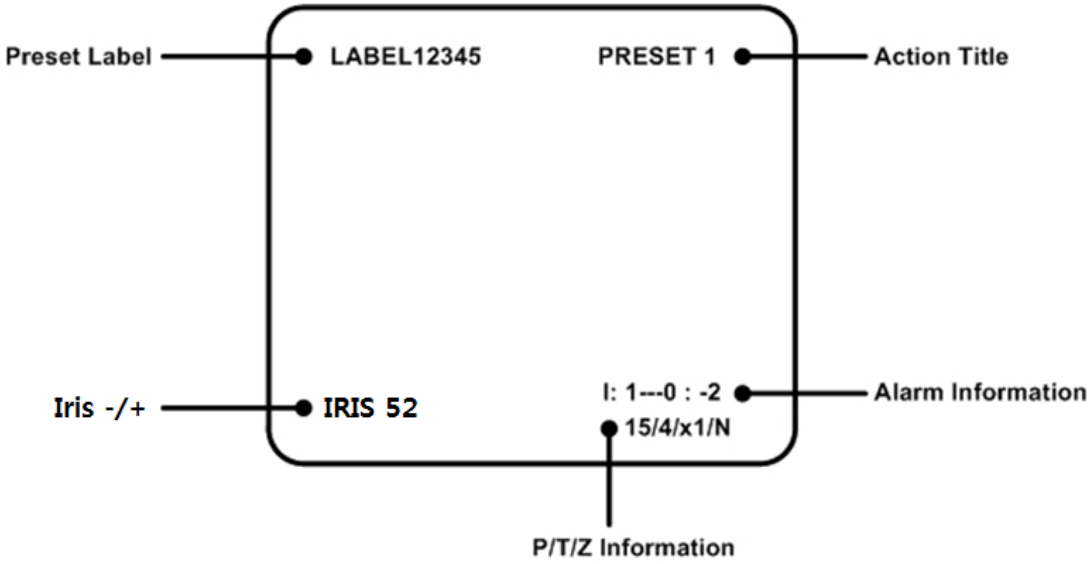
- **Privacy Zone Mask** To protect privacy, Max. 8 Privacy Masks can be created on the arbitrary position to hide objects such as windows, shops or private house. With Spherical Coordinates system, powerful Privacy Zone Mask function is possible. This function is only available with ISS2465N(P)X, ISS2665N(P)X, ISS2965N(P)X and ISS2765N(P)(Option).

- **Global/Local Image Setup** WB(White Balance) and AE(Auto Exposure) can be set up independently for each preset. There are 2modes, "Global" mode & "Local" Mode. The Global mode means that WB or AE can be set up totally and simultaneously for all presets in "ZOOM CAMERA SETUP" menu. The Local mode means that WB or AE can be set up independently or separately for each preset in each preset setup menu.
  Each Local WB/AE value should activate correspondingly when camera arrives at each preset location.
  During jog operation, Global WB/AE value should be applied. All Local WB/AE value do not change although Global WB/AE value changes.

- **SemiAuto Focus** This mode exchanges focus mode automatically between Manual Focus mode and Auto focus mode by operation. Manual Focus mode activates in preset operation and Auto Focus mode activates during jog operation. With Manual mode at preset, Focus data is memorized in each preset in advance and camera calls focus data in correspondence with presets as soon as camera arrives at a preset.
  It should shorten time to get focuses. Focus mode changes to Auto Focus mode automatically when jog operation starts.

4. OSD Menu

⊙ OSD Display of Main Screen



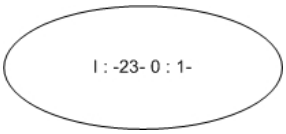
- **P/T/Z Information** — Current Pan/Tilt angle in degree, zoom magnification and a compass direction.

- **Action Title** — Followings are possible Action Titles and their meaning.

"SET PRESET xxx"	→	When Preset xxx is stored
"PRESET xxx"	→	When camera reach to preset xxx
"PATTERN x"	→	When Pattern x is in action
"SWGx/PRESET xxx"	→	When Swing x is in action
"UNDEFINED"	→	When undefined function is called to run

- **Preset Label** — The Label stored for specific Preset.

- **Alarm Information** — This information shows current state of sensor input and relay output.
  If the Input and output points are ON state it will show a number corresponding to each point
  When they are OFF state, '-'will be displayed.
  Ex) point 2&3 of inputs and 1 of output are ON, OSD will show as below



- **Iris -/+** — When push Iris- button, camera go to close the IRIS.
  When push Iris+ button, camera go to open the IRIS.

4. OSD Menu

⊙ General Rules of key Operation for Menu

- The menu items surrounded with < > always has its sub menu.
- For all menu level, to go into sub menu, press **NEAR** key.
- To go to up-one-level menu, press **FAR** key.
- To move from items to item in the menu, use Direction KEY in the **Up/Down** or **Left/Right**.
- To change a value of an item, use **Up/Down** of the menu direction key in the web page.
- Press **NEAR** key to save values and Press **FAR** key to cancel values.
- Specifications and functions should be different by models.

⊙ Main Menu

- **SYSTEM INFORMATION** Displays system information and configuration.
- **DISPLAU SETUP** Enable/Disable of OSD display on Main Screen.
- **DOME CAMERA SETUP** Configure various functions of this camera.
- **SYSTEM INITIALIZE** Initializes system configuration and sets all data to factory default configuration.

⊙ Display Setup

This menu defines Enable/Disable of OSD display on main Screen,
If an item is set to be AUTO, the item is displayed only when the value of it is changed.

- **CAMERA ID** [ON/OFF]
- **PTZ INFORMATION** [ON/OFF/AUTO]
- **ACTION TITLE** [ON/OFF/AUTO]
- **PRESET LABEL** [ON/OFF/AUTO]
- **ALARM I/O** [ON/OFF/AUTO]

■ COMPASS DIRECTION SETUP

Set North to assign compass direction as criteria.
Move camera and press **NEAR** button to save.

4. OSD Menu

⊙ Privacy Zone Mask Setup (Models ISS2965N(P)X and ISS2765N(P) Only)

Select area in image to mask.

- **MASK NO** [1~8]
  Select Mask number. If the selected mask has already data, camera moves as it was set. Otherwise,
  "UNDEFINED" will be displayed under "MASK NO".
- **DISPLAY** [ON/OFF]
  Sets if camera makes mask shows or not on images.
- **CLEAR MASK** [CANCEL/OK]
  Deletes data in the selected mask NO.

■ Privacy Zone Area Setup

Move camera to the area to mask.
Then the menu to adjust mask size will be displayed.

■ Privacy Zone Size Adjustment

Adjust mask size, Use Direction KEY or arrow buttons to adjust mask size.

- ◀▶ **(Left/Right)** Adjusts mask width.
- ▲▼ **(Up/Down)** Adjusts mask height.

4. OSD Menu

⊙ Camera Setup (Model ISS2765N(P))

Setup the general functions of 27x optical zoom camera module.

- **FOCUS MODE** [AUTO/MANUAL/SEMIAUTO]
  Sets camera focus mode.
- **MAX ZOOM** [x1 ~ x270]
  Sets the maximum zoom magnification.
- **FLICKERLESS** [ON/OFF]
  When an NTSC camera if used under 50Hz and PAL under 60Hz flickering may appear on the screen. When this happens, turn FLICKERLESS setting ON. This prevents flickering which happens when the frequency of the power and the frequency of camera are different. When FLICKERLESS in ON, Day&Night mode goes DAY and Digital Slow Shutter mode goes OFF automatically.
- **COLOR** [ON/OFF]
  Switching color mode to black-white mode
- **LINE LOCK** [ON/OFF]
  If Line lock sync is ON, video signal is synchronized with AC power. Video can be fluctuated after setting is changed.

■ WHITE BALANCE SETUP

- **WB MODE** [AUTO/MANUAL]
  In Manual mode, Red and Blue level can be setup manually.
- **RED ADJUST** [0~255]
- **BLUE ADJUST** [0~255]

4. OSD Menu

■ AUTO EXPOSURE SETUP

- **BACKLIGHT** [OFF/C1/C2/L1/L2/U1/U2/D1/D2/R1/R2]
  Sets Backlight Compensation.
  The reference position and the level of BLC are selectable. Refer to the table below. *Note1)*
- **DAY/NIGHT** [AUTO/DAY/NIGHT]
- **SLOW SHOUTTER** [OFF/2~128 Field]
  Activates SLOW SHUTTER function when luminance of image(signal) is too dark. It is possible to set up the maximum number of fields piled up one on another by SLOW SHUTTER function. It is only available when DAY/NIGHT mode is DAY
- **AE MODE** [AUTO/SHUTTER/IRIS/AGC/MANUAL]
  There are five modes of Auto Exposure function.
  Except AUTO mode, the others can be selected when DAY/NIGHT mode is DAY and Slow Shutter mode is OFF.
- **IRIS LEVEL** [0~255]
  It can be set when AE is in IRIS mode or MANUAL mode.
- **GAIN LEVEL** [0~255]
  It can be set when AE is in AGC mode or MANUAL mode.
- **SHUTTER SPEED** [0~27]
  It can be set when AE is in SHUTTTER SPEED mode or in MANUAL mode.
  As for setting value, refer to the table below. *Note2)*
- **BRIGHTNESS** [0~96]
  It can be set when AE is not in MANUAL mode.

Note1) Backlight Compensation

Value	Description	Value	Description
C1	Low weight at the center of the screen	C2	High weight at the center of the screen
L1	Low weight at the left of the screen	L2	High weight at the left of the screen
U1	Low weight at the upper of the screen	U2	High weight at the upper of the screen
D1	Low weight at the lower of the screen	D2	High weight at the lower of the screen
R1	Low weight at the right of the screen	R2	High weight at the right of the screen

Note2) Shutter Speed Table

*The values are based on NTSC type models.

Value	Shutter	Value	Shutter	Value	Shutter	Value	Shutter
0	1/60 sec	7	1/400 sec	14	1/1000 sec	21	1/2500 sec
1	1/125 sec	8	1/450 sec	15	1/1100 sec	22	1/2500 sec
2	1/150 sec	9	1/500 sec	16	1/1300 sec	23	1/3000 sec
3	1/200 sec	10	1/600 sec	17	1/1500 sec	24	1/3500 sec
4	1/250 sec	11	1/700 sec	18	1/1600 sec	25	1/4000 sec
5	1/300 sec	12	1/800 sec	19	1/1800 sec	26	1/6000 sec
6	1/350 sec	13	1/900 sec	20	1/2000 sec	27	1/10000 sec

4. OSD Menu

⊙ Camera Setup (ISS2965N(P)X)

Setup the general functions of 36x optical zoom modules.

- **FOCUS MODE** [AUTO/MANUAL/SEMIAUTO]
  Sets camera focus mode.
- **DIGITAL ZOOM** [ON/OFF]
  Sets digital zoom on or off.
- **FLICKERLESS** [ON/OFF]
  When an NTSC camera is used under 50Hz or PAL under 60Hz, flickering may appear on the screen.
  When this happens, turn Flickerlees setting ON.
  This prevents flickering which happens when the frequency of the power and the frequency of camera are different.
- **COLOR** [ON/OFF]
  Switching color mode to black-white mode.
- **LINE LOCK** [ON/OFF]
  If Line lock sync is ON, video signal is synchronized with AC power. Video can be fluctuated after setting is changed.

■ WHITE BALANCE SETUP

- **WB MODE** [AUTO/MANUAL]
  In Manual mode, Red and Blue level can be setup manually.
- **RED ADJUST** [0~255]
- **BLUE ADJUST** [0~255]

4. OSD Menu

■ AUTO EXPOSURE SETUP

- **BACKLIGHT** [ON/OFF]
  Sets Backlight Compensation.
- **DAY/NIGHT** [AUTO/DAY/NIGHT]
- **AE MODE** [AUTO/SHUTTER/IRIS/GAIN/BRIGHT/MANUAL]
  Selects automatic exposure mode. Each mode appears with adjustable values. When Flickeress mode is ON, AE mode is automatically in SHUTTER SPEED mode.
- **IRIS LEVEL** [CLOSE/F1.6~F28] (Model S1465N(P)X, S1965N(P)X)
  [CLOSE/F1.4~F22] (Model S1665N(P)X)
  It can be set when AE is in IRIS mode or MANUAL mode.
- **GAIN LEVEL** [–3dB~28dB]
  It can be set when AE is in MANUAL mode.
- **SHUTTER SPEED** [1/1sec~1/10000sec]
  It can be set when AE is in SHUTTER SPEED mode or MANUAL mode.
- **BRIGHTNESS** [0~31]
  It can be set when AE is in BRIGHTNESS mode.
- **WDR** Only available with ISS2965N(P)X Models.

4. OSD Menu

⊙ Motion Setup

Setup the general functions of Pan/Tilt motions.

- **MOTION LOCK** [ON/OFF]
  If Motion Lock is set to ON, it is impossible to set up and delete Preset Swing, Pattern and Group.
  It is possible only to run those functions. To set up and elete those functions, enter into OSD menu.
- **PWR UP ACTION** [ON/OFF]
  Refer to "Other Functions" section.
- **AUTO FLIP** [ON/OFF]
  Refer to "Other Functions" section.
- **JOG MAX SPEED** [1°/sec~360°/sec]
  Sets maximum jog speed. Jog speed is inversely proportional to zoom magnification. As zoom magnification goes up, pan/tilt speed goes down.
- **JOG DIRECTION** [INVERSE/NORMAL]
  If you set this to 'Inverse', the view in the screen is moving same direction with jog tilting. If 'Normal' is selected, the view in the screen is moving reversely.
- **FRZ IN PRESET** [ON/OFF] (30x (EXview), 27x, 36x Models Only)
  If "Freeze in preset" function mode is ON, camera starts freezing the image of start point at start point of preset movement. Camera keeps displaying the image of start point during preset movement and does not display the images which camera gets during preset movement.
  As soon as camera stops at preset end point, camera start displaying live images which it gets at preset end point.
  This function is only available with 30x (EXview), 27x ,36x Models.

■ PARK ACTION SETUP

If Park Enable is set to ON, camera runs assigned function automatically if there is no PTZ command during assigned "Wait Time".

- **PARK ENABLE** [ON/OFF]
- **WAIT TIME** [1 minute ~ 4 hours]
  The time is displayed with "hh:mm:ss" format and you can change this by 1 min unit.
- **PARK ACTION** [HOME/PRESET/PATTERN/SWING/GROUP]
  If it is set to "HOME", all the functions go back to "HOME" position (PAN,TILT, ZOOM)=(0, 0, x1).

4. OSD Menu

■ ALARM ACTION SETUP

Sets the preset to move to when the alarm is input.

- **ALARM N ACT** [NOT USED/PRESET 1~128]
  Assign counteraction Preset position to each Alarm input

  The uppercase "N" indicates the alarm index.

⊙ Preset Setup

- **PRESET NO.** [1~128]
  If a selected preset is already defined, camera moves to pre-defined position and preset characteristics such as Label and Relay Outputs show on monitor. If a selected preset is not defined, "UNDEFINED" shows on monitor.

- **CLR PRESET** [CANCEL/OK]
  Delete current Preset data.

- **EDIT SCENE** Redefine current Preset scene position (i.e.PTZ).

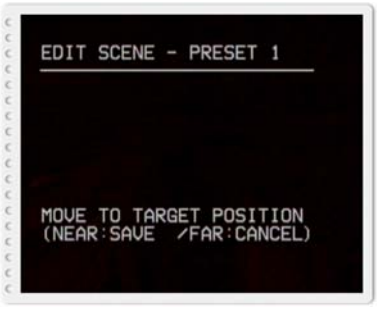
- **EDIT LABEL** Edits Label to show on monitor when preset runs.
  MAX. 10 alphabets are allowed.

- **RELAY OUT** Sets the relay output. The figure on the right is current Setting value. '-' indicates OFF mode.
  If the relay is shown as figures, it means relay is ON.

- **CAM ADJUST** [GLOBAL/LOCAL]
  WB(White Balance) and AE(Auto Exposure) can be set up independently for each preset. There are 2 modes, "Global" mode & "local" mode.
  The Global mode means that WB or AE can be set up totally and simultaneously for all presets in "ZOOM CAMERA SETUP" menu.
  The local mode means that WB or AE can be set up independently or separately for each preset in each preset setup menu. Each Local WB/AE value should activate correspondingly when camera arrives at each preset location.
  During jog operation, Global WB/AE value should be applied.
  All Local WB/AE value should not change although Global WB/AE value changes. If "local" is selected, Menu to set WB/AE shows on monitor.

4. OSD Menu

■ EDIT PRESET SCENE



① Using Direction KEY, move camera to desired position.

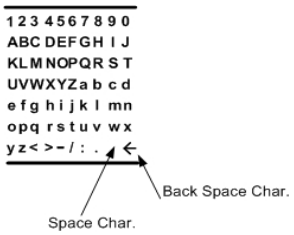
② By pressing **NEAR** key, save current PTZ data.

③ Press **FAR** key to cancel.

■ EDIT PRESET LABEL

① Edits label to show on monitor when camera arrives at presets.
In Edit label menu, a reverse rectangular is cursor.
As soon as finishing selecting alphabet, cursor moves to the next digit.

② Using **Left/Right/Up/Down** of **Direction KEY**, move to an appropriate character from the Character set.
To choose that character, press the **NEAR** key.



If you want to use blank, choose Space character(" "). If you want To delete a character before, use back space character(" ← ").

③ If you complete the Label editing, move cursor to "OK" and press **NEAR** key to save completed label. To abort current change, move cursor to "Cancel" and press **NEAR** key.

■ EDIT RELAY OUT

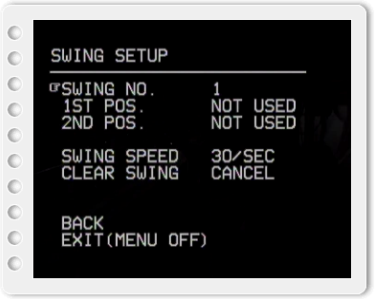
• **RELAY OUT N** [ON/OFF]

Sets relay output when changing preset position.

The uppercase "N" indicates the number for the preset.

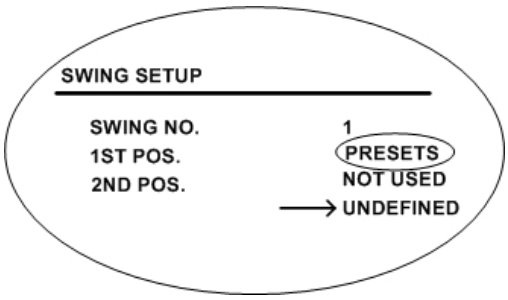
4. OSD Menu

⊙ Swing Setup



• **SWING NO.** [1~8]
Selects Swing number to edit. If a selected Swing has not defined, "NOT USED" is displayed in 1st Position and 2nd Position.

• **1ST POS.** [PRESET 1~128]
2ND POS. Set up the 2 position for Swing function.
If a selected preset is not defined, "UNDEFINED" will be displayed as shown below.



When swing function runs, camera moves from the preset assigned as the 1st point to the preset assigned as the 2nd point in CW(Clockwise) direction. Then camera moves from the preset assigned as the 2nd point to the preset assigned as the 1st point is CCW(Counterclockwise) direction.
In case that the preset assigned as the 1st point is same as the preset assigned as the 2nd point, camera turns on its axis by 360° in CW direction and then it turns on its axis by 360° in CCW direction.

•**SWING SPEED** [1°/sec~180/°sec]
Sets Swing speed from 1°/sec to 180°/sec.

•**CLEAR WING** [CANCEL/OK]
Deletes current Swing data.

4. OSD Menu

⊙ Pattern setup

- **PATTERN NO.** [1~4]
  Selects Pattern number to edit. If a selected pattern number is not defined, "UNDEFINED" will be displayed under selected pattern number.
- **CLR PATTERN** [CANCEL/OK]
  Deletes data in current pattern.
- **EDIT PATTERN** Starts editing pattern.

■ EDIT PATTERN

① By using Direction KEY, move to start position with appropriate zoom.
To start pattern recording, press **NEAR** key. To exit this menu, press **FAR** key.

② Move camera with Direction KEY or run preset function to memorize the path (mostly curve path) in a selected pattern. The total memory size and the rest memory size is displayed in the form of bar.
Maximum 1200 communication commands can be stored in a pattern.

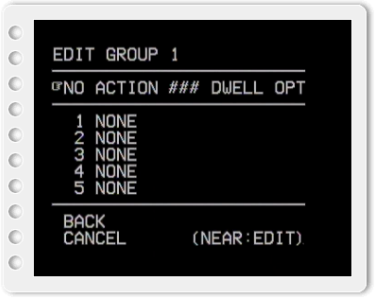
③ To save data and exit, press **NEAR** key. To cancel recording and delete record data, press **FAR** key.

4. OSD Menu

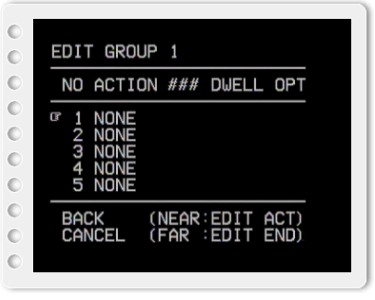
⊙ Group Setup

- **GROUP NO.** [1~8]
  Selects a group number. If the selected number is not set, "UNDEFINED" will be displayed selected Group number.
- **CLEAR GROUP** [CANCEL/OK]
  Clears the current setting of a group.
- **EDIT GROUP** Starts editing Group.

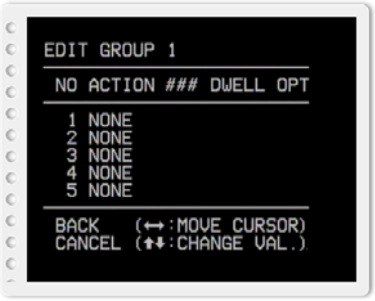
■ EDIT GROUP



① Press **NEAR** key in "NO" list to start Group setup.



② Note that MAX. 20Functions are allowed in a Group. Move cursor up/down and press **NEAR** key to set up.



③ Set up Action, Dwell time and Option. Note that selected item is displayed in reverse.
Move cursor **Left/Right** to select items and move cursor **Up/Down** to change each value.

- **ACTION ###** [NONE/PRESET/SWING/PATTERN]
- **DWELL** [0 sec~4min]
  Sets Dwell Time between functions.
- **OPT (Option)** It should be preset speed when preset is set in Action.
  Is should be the number of repeat when Pattern or Swing is selected in Action.

4. OSD Menu

④ Set up items such as Action, ###, Dwell and OPT

⑤ After finishing setting up a Action, press **NEAR** key to one-upper-Level Menu(Step②).
Move cursor **Up/Down** to select Action Number and repeat Step ②~ Step ④ to edit selected Group.

⑥ After Finishing setting up all Action, press **FAR** key to exit.
Then cursor should be moved to "SAVE". Press **NEAR** key to save data.

4. OSD Menu

⊙ System Initialize

- **CLEAR ALL DATA** — Deletes all configuration data such as display, camera, motion setup and so on.
- **CLR DISPLAY SET** — Initializes Display Configuration.
- **CLR CAMERA SET** — Initializes camera Configuration.
- **CLR MOTION SET** — Initializes Motion Configuration.
- **CLR EDIT DATA** — Deletes Preset Data, Swing Data, Pattern Data and Group Data.
- **REBOOT CAMERA** — Reboots Zoom Camera module.

■ Initial setting

• Display setting		• Camera setting	
Camera ID	OFF	Focus mode	SEMIAUTO
PTZ Information	AUTO	Digital Zoom	ON ●
Action Title	AUTO	Max Zoom	▣ X270 /● X432
Preset Label	AUTO		
Alarm I/O	AUTO	Flickerless	OFF
North Direction	PAN 0 °	Color	ON
Privacy Zone ●▣	UNDEFINED	Line Lock	OFF
		White Balance Mode	AUTO
		Backlight	OFF
		Day&Night	AUTO
		Slow Shutter ▣	24
		AE Mode	AUTO
		Brightness ▣	52
• Motion setting		**• User setting data**	
Motion Lock	OFF	Preset 1~128	UNDEFINED
Power up Action	ON	Swing 1~8	UNDEFINED
Auto Flip	ON	Pattern 1~4	UNDEFINED
Jog Max Speed	120/SEC	Group 1~8	UNDEFINED
Jog Direction	INVERSE		
Park Action	OFF		
Alarm Action	OFF		
FRZ IN PRESET ●▣	OFF		

Above functions are only available with the following models;
● : ISS2965N(P)X ▣ : ISS2765N(P)(Option)

5. IP network Part

⊙ system Administration

• Logging On

You can log on as an administrator using either Internet browser or 'CMS' software.

(This manual will describe about using Internet browser only.)

• Using Internet Explorer

Type the IP Address of the XPEED-XNET product in the address bar and press enter.

Ex) : **http://192.168.123.100**

If the HTTP port has been changed from the default value, enter the new port as shown below:

IP Address of the XPEED-XNET: Port No.

Ex) : **http://192.168.123.100:8080**

• ID and Password

If you are logging in as an administrator, the Log-In box will appear as shown in figure 5-1.

Basic Setup page will appear when you enter id and password.

5. IP network Part

⊙ Operating the Camera

When you log in as an administrator, XPEED-XNET's Basic Setup page will appear as shown in Figure 5-1.

Setup pagers for different features can be accessed from this page. Access to each feature are controlled

by different user groups (Administrator, Operator, and Viewer).

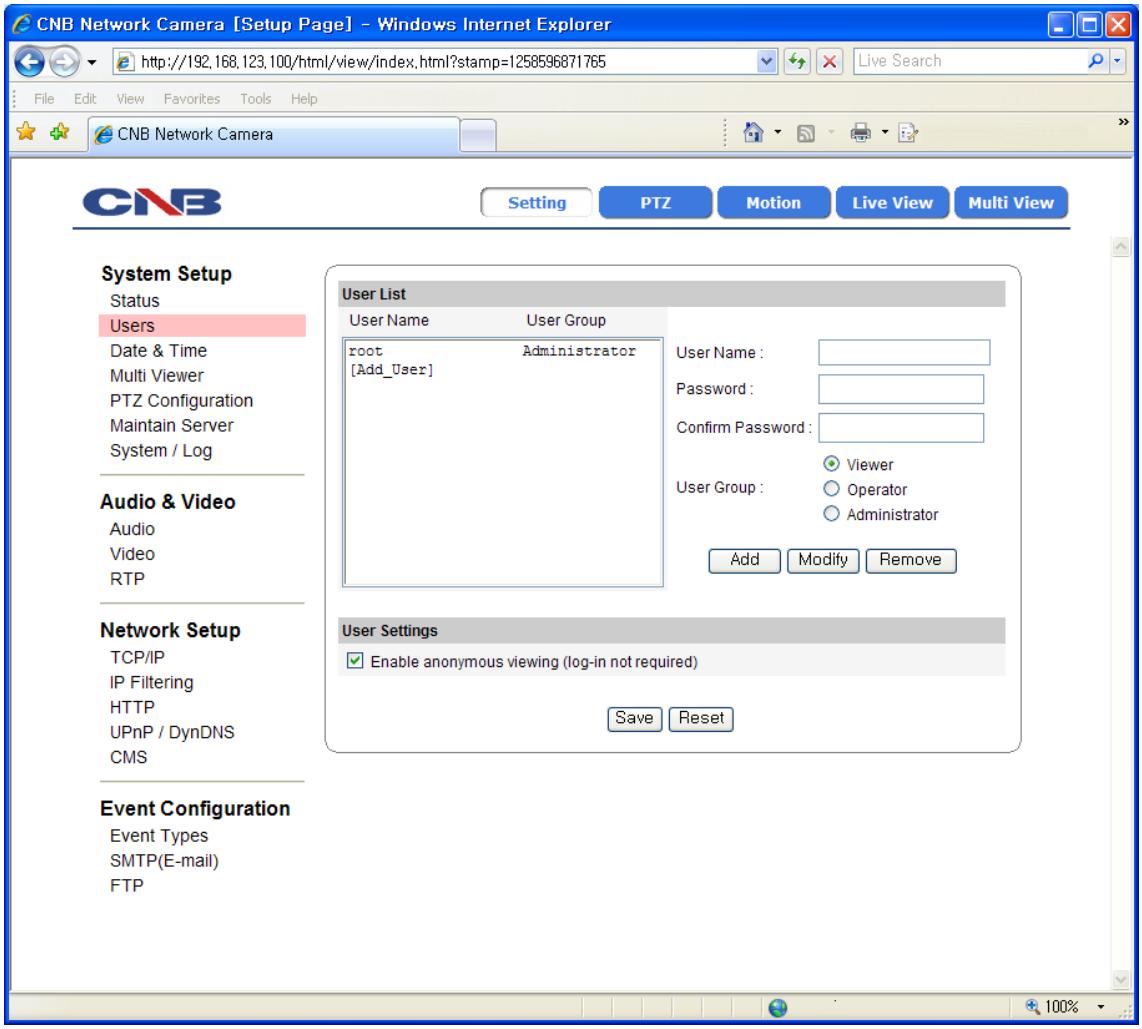


Figure 5-1 Basic Setup Page

Basic Setup Page can be accessed from Operator group level and up.

If you want to access Administrator level page in this user level, you need to log in as Administrator.

Please refer to the following table for access authority.

" ● " Accessible

" — " Not Accessible

Function	Access		
	Administrator	Operator	Viewer
Index Page	●	●	●
Multi-Index Page	●	●	●
PTZ Page	●	●	—
Motion Page	●	●	—
Users Setup Page	●	—	—
Date & Time Setup Page	●	●	—
Multi-Viewer Setup Page	●	—	—
Maintain Server Setup Page	●	—	—
System / Log Setup Page	●	—	—
Audio Setup Page	●	●	—
Video Setup Page	●	●	—
TCP / IP Setup Page	●	—	—
IP Filtering Setup Page	●	—	—
SMTP Setup Page	●	—	—
FTP Setup Page	●	—	—
HTTP Setup Page	●	—	—
UPnP / DynDNS Setup Page	●	—	—
RTP Setup Page	●	—	—
CMS Setup Page	●	—	—
Event Type Setup Page	●	●	—
Sensor/Alarm Setup Page	●	●	—
PTZ Configuration Setup Page	●	●	—

5. IP network Part

⊙ Live view (Web Viewer)

When you access in IP-XNET product, Web Viewer page will appear automatically.

Viewer area displays the video output from the camera, and menu bar taps that lead to each feature setting page.

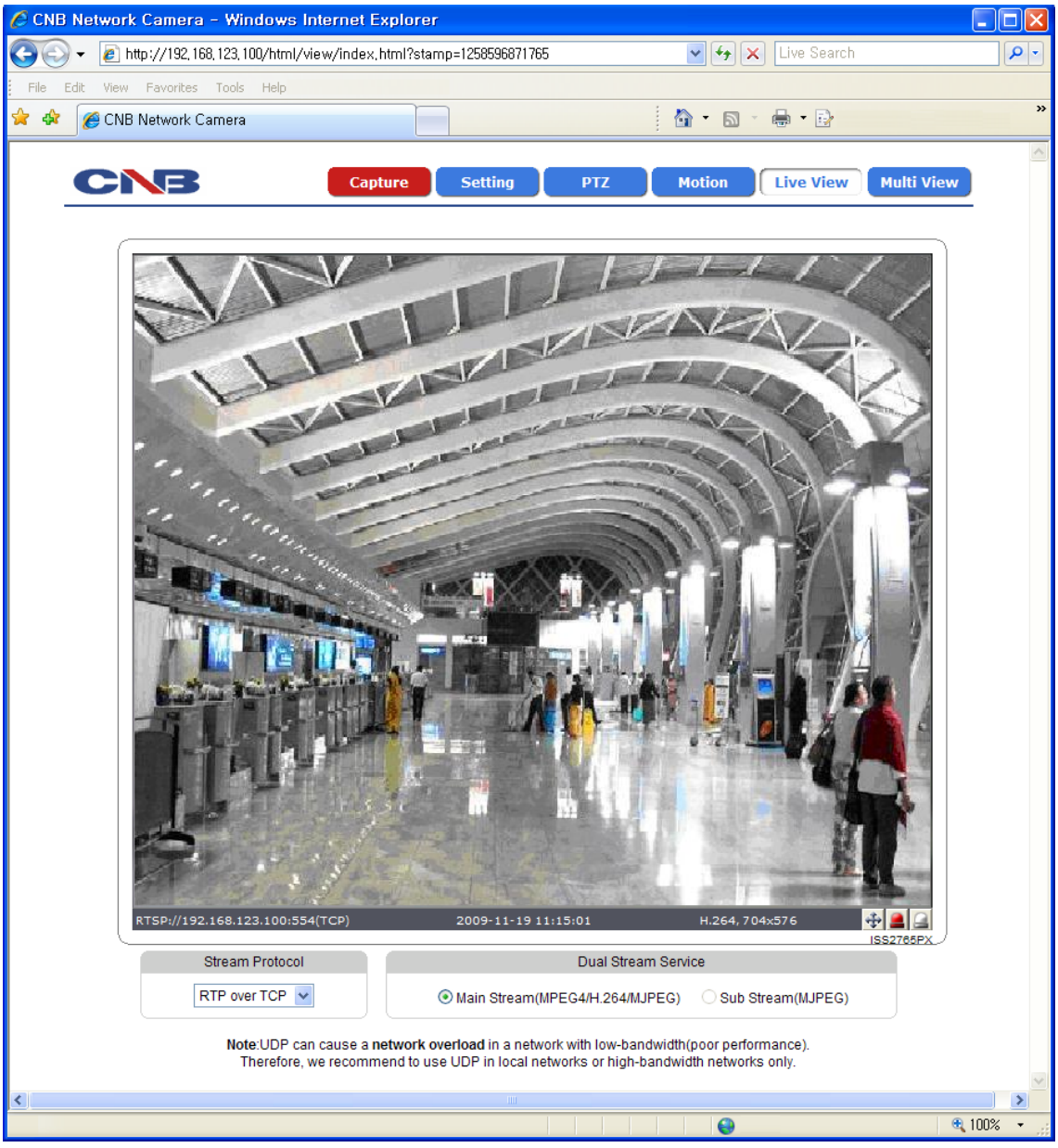


Figure 5-2 Web Viewer Page

Field	Sub Field	Description
Capture	-	Captures the still image and displays on a pop-up window. [Save to] c:₩xNetCapture
Setting	-	Opens up Basic Setup page. Setup page for each IP-XNET feature can be opened from this Menu screen. (Please refer to 5-4 ~ 5-21 for detail)
PTZ	-	Opens up PTZ page. This page can set up PTZ of network camera and control of PTZ movement. (Please refer to 5-22 for detail)
Motion	-	Opens up Motion Detection page. You can add or delete area for detecting motion in this page. (Please refer to 5-23 for detail)
Live View	-	Opens up Index View page. Index View page will display Video as well as setting up Stream Protocol(TCP / UDP) and Codec(when using dual Stream)
Multi View	-	Opens up Multi View page. Multi View page will display up to 4 video signals set up in Multi Video Player Setup Page. (Please refer to 5-24 for detail)
Stream Protocol	-	A Stream Protocol can be selected when selecting Edit Box. (RTP over TCP/RTP over UDP)
Dual Stream Service	Main Stream	When this box is checked, Main Stream Video is displayed. (MPEG4/H.264/MJPEG)
	Sub Stream	When this box is checked, Sub Stream Video is displayed. Dual-Codec needs to be enabled in Video Setup Page in order for Sub Stream Video To be displayed. (MJPEG) (Please refer to 5-12 for detail)

5. IP network Part

⊙ Status Window

Status page display XPEED-XNET system's Version and its Ethernet address.

Clock [▷ **Status**] button to open the page shown in Figure 5-4.

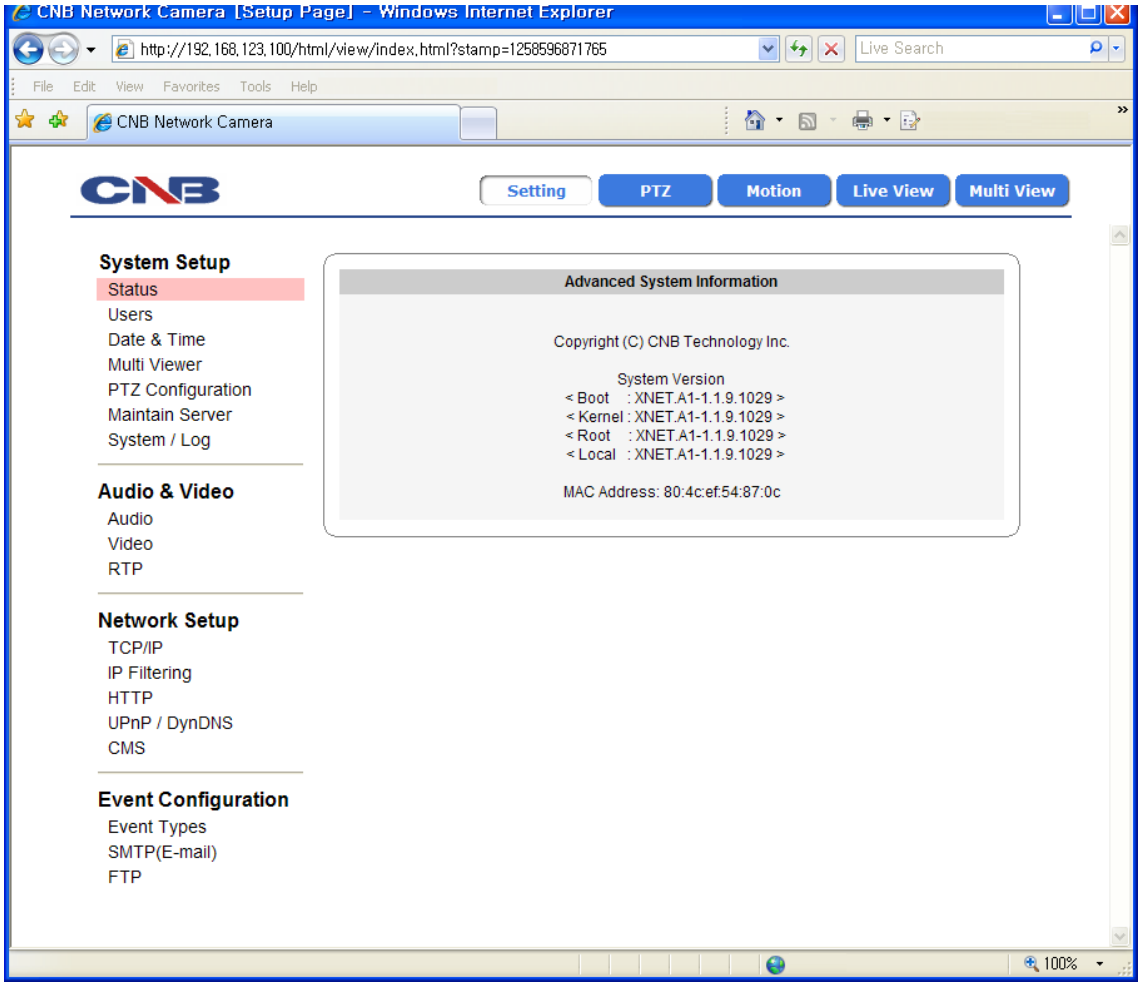


Figure 5-4 Status Page (Internet Explorer 7.0)

MEMO

5. IP network Part

⊙ Configuring Users

This can give or limit authority to users for controlling Video and other features of XPEED-XNET system.

Click [▷ **Users**] button to open the page shown in Figure 5-5.

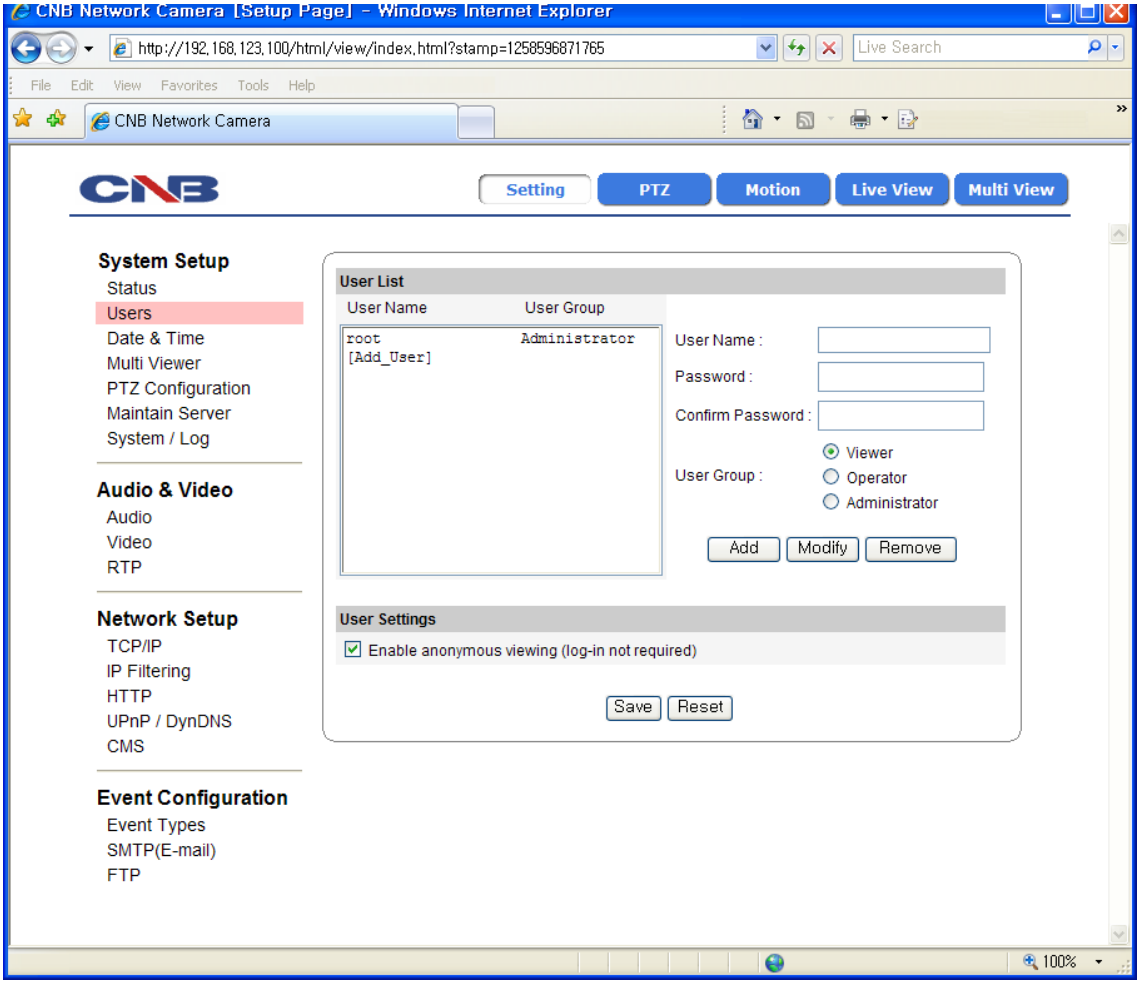


Figure 5-5 Users Configuration Page

Field	Sub Field	Description
User List		Displays list of registered users. "root" is the system's administrator. "root" cannot be added or deleted. Only the password for "root" can be changed.
Add	-	This adds a new user. Select "**[Add_User]**" tap in User List Box. To add a new user, enter User name, Password, and User group then click Add button. Updated User list can be viewed in User List Box. - Up to 10 users can be added. - Authority of different User Groups. **Administrator** : Full control of all the XPEED-XNET system. **Operator** : Control over Viewer, Audio&Video Setup, and Event Configuration. **Viewer** : View camera's video signal only.
Modify	-	Modifies information for each user. Select a user in User Listbox, enter new Password/User Group, and click **Modify** button to save the changes. Updated detail can be viewed in User Listbox.
Remove	-	Removes a user. Select a user in User Listbox and click **Remove** button to remove. Updated user list can be viewed in User Listbox.
User Settings	Enable anonymous viewer login	Turns Anonymous Viewer mode on or off. When enabled, Web Viewer can be accessed without a log-in prompt.
Save	-	Applies and saves the configurations.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Setting Date & Time

This page will change Date and Time of XPEED-XNET system.

Click [▷ **Date & Time**] to open the page shown in Figure 5-6.

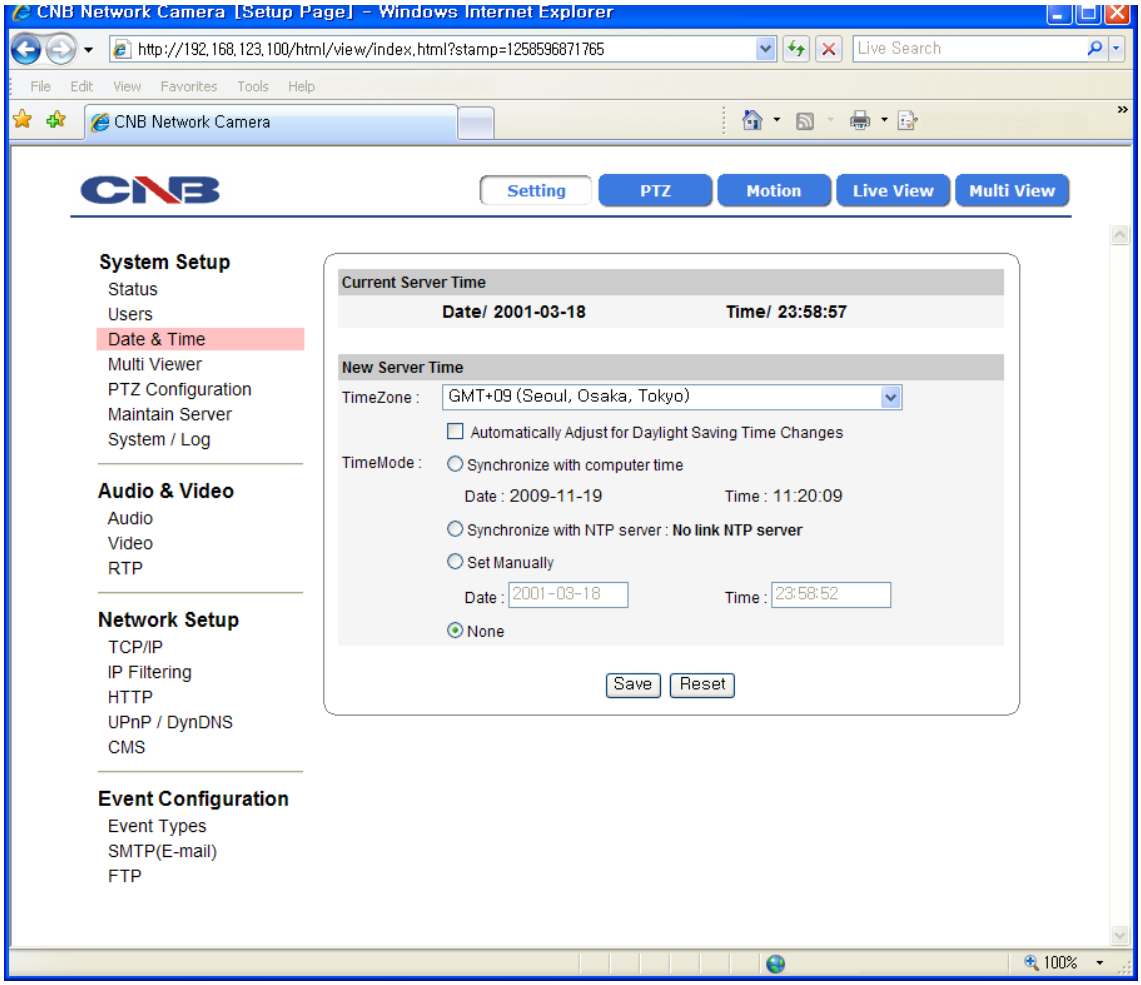


Figure 5-6 Date and Time Page

Field	Sub Field	Description
Current Server Time	-	Displays time of XPEED-XNET system.
New Server Time	Time Zone	Selects Time Zone. <Default : GMT+09>
	Enable Daylight Time	Enables/Disables Daylight Saving Time.
	Time Mode	Sets Date and Time of the Server. <Default : None> **[Synchronize with computer time]** - Synchronizes time and date of Client PC to Server. **[Synchronize with NTP server]** - Synchronizes server's time and date to NTP Server. (Enter NTP Server address in Network Setup Page) **[Set Manually]** - Server date and time of Server manually.
Save	-	Applies and saves the configurations.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Configuring Multi-Viewer

Up to 3 cameras connected to XPEED-XNET's network can be displayed

as sub-cameras simultaneously in Multi-View page.

Click [▷ **Multi Viewer**] to copn the page shown in Figure 5-7.

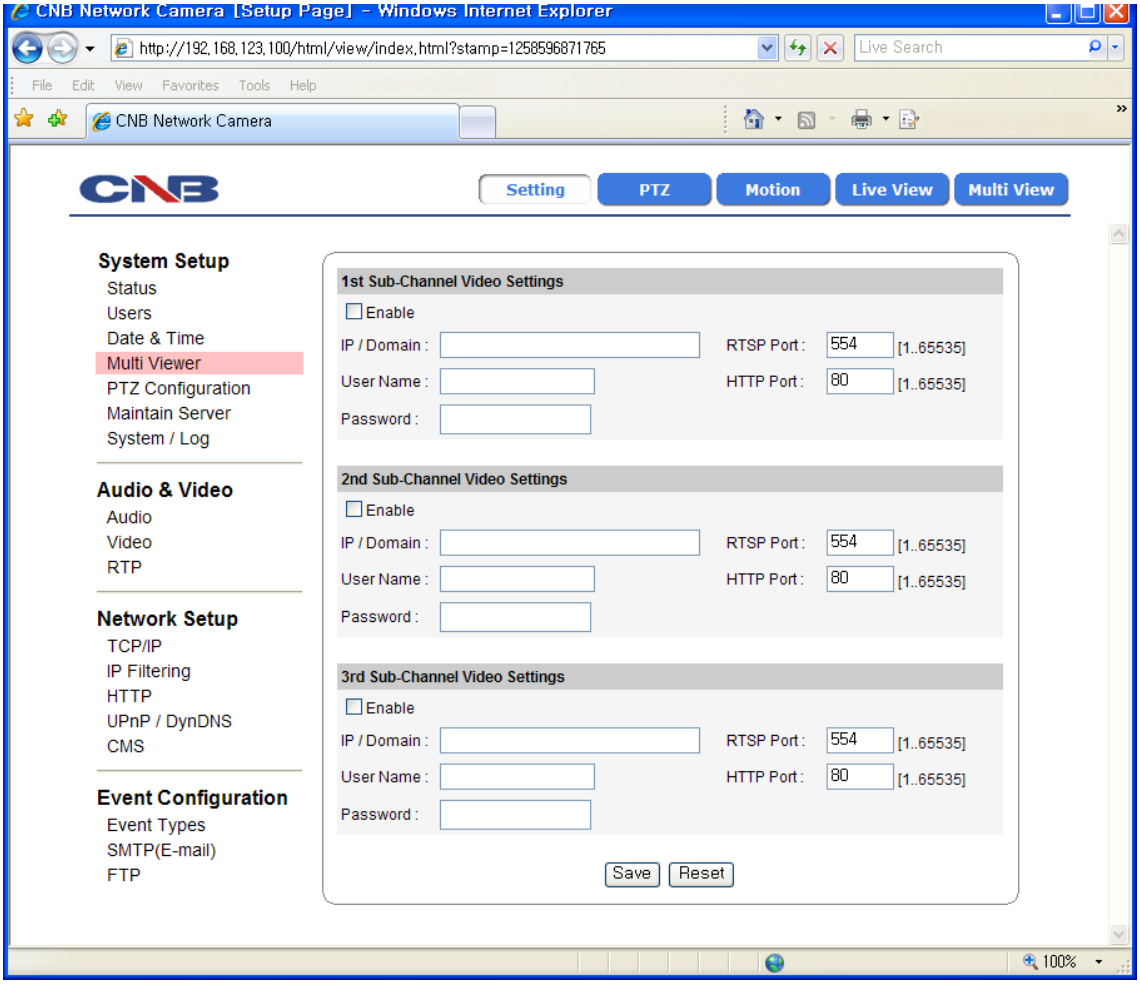


Figure 5-7 Multi-Viewer Configuration Page

Field	Sub Field	Description
1st Sub-Channel Video Settings	Enable 1st Sub Channel Video	Enables viewing of 1st sub ChannelVideo from IP address entered. This can only be enabled when IP address, User Name, and Password is properly entered. <Default : Disable>
	1st IP Address	Enter 1st Sub Channel's IP Address.
	1st User name	Enter 1st Sub Channel's User name.
	1st Password	Enter 1st Sub Channel's Password.
2nd Sub-Channel Video Settings	Enable 2nd Sub Channel Video	Enables viewing of 2nd sub ChannelVideo from IP address entered. This can only be enabled when IP address, User Name, and Password is properly entered. <Default : Disable>
	2nd IP Address	Enter 2nd Sub Channel's IP Address.
	2nd User name	Enter 2nd Sub Channel's User name.
	2nd Password	Enter 2nd Sub Channel's Password.
3rd Sub-Channel Video Settings	Enable 3rd Sub Channel Video	Enables viewing of 2nd sub ChannelVideo from IP address entered. This can only be enabled when IP address, User Name, and Password is properly entered. <Default : Disable>
	3rd IP Address	Enter 3rd Sub Channel's IP Address.
	3rd User name	Enter 3rd Sub Channel's User name.
	3rd Password	Enter 3rd Sub Channel's Password.
Save	-	Applies and saves the configurations.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Configuration PTZ

This configures XPEED-XNET's PTZ server information.

Click [▷ **PTZ Configuration**] to open the page shown in Figure 5-8.

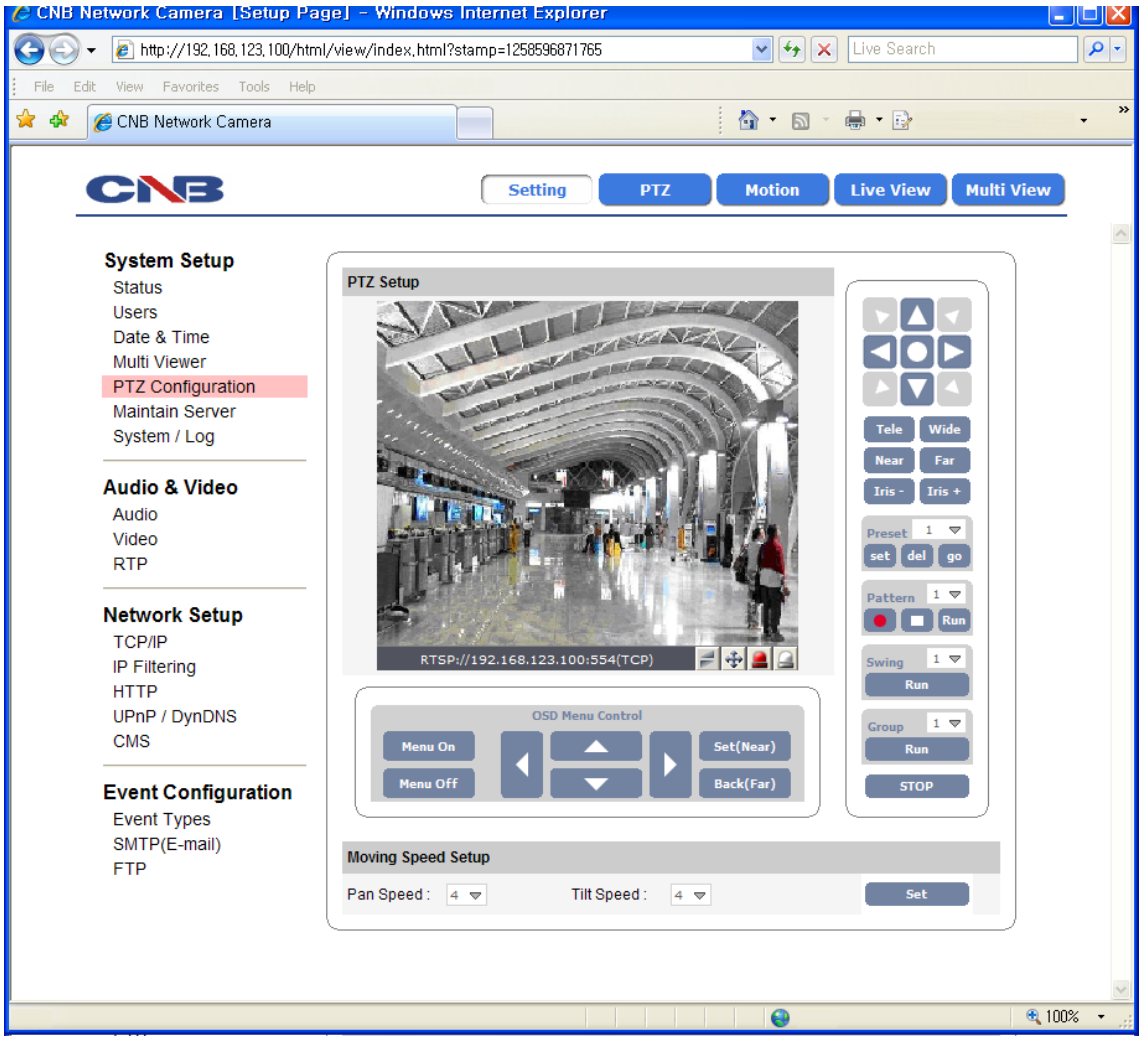
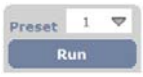
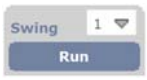
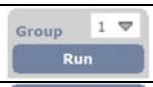
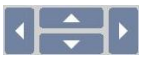


Figure 5-8 PTZ Configuration page

	Direction Key	This moves the viewable area within the active CCD region. From the center, it can be moved two click positions in the the positive/negative x/y direction. This button moves origin point.
	Tele/Wide	When push Tele button, camera go Zooms In. When push Wide button, camera go Zooms Out.
	Near/Far	When push Near button, camera go Focus In. When push Far button, camera go Focus Out.
	Iris-/Iris+	When push Iris- button, camera go to close the IRIS. When push Iris+ button, camera go to open the IRIS.
	set	Saves the current position to the values in the Preset Edit box.
	del	Deletes the current position to the values in the Preset Edit box.
	go	Moves the PTZ to the defined Preset position.
		Start to save for Pattern.
		End to save for Pattern.
	Run	Runs Pattern.
	-	Runs defined Swing.
	-	Runs defined Group .
STOP	-	Stops running the Pattern, Swing, and Group.
		Menu On : Displays camera OSD menu in screen. Menu Off : Displays off for camera OSD menu.  Move or change a OSD item in OSD menu. Set(Near) : set selected menu function. Back(Far) : cancel and move to selected menu function.
Moving Speed Setup	Pan Speed	Select the Pan Speed of PTZ.
	Tilt Speed	Select the Tile Speed of PTZ.
	Set	Set : Applies and Saves selected Pan/Tilt's Speed .

5. IP network Part

⊙ Maintaining Server Configurations

This page configures system parameters such as system restart, factory default settings, system upgrade,

Saving configurations, saving images, and other additional features.

Click [▷ **Maintain Server**] to open the page shown in Figure 5-9.

Figure 5-9 Server Maintenance page

Field	Sub Field	Description
Maintain Server	Restart	Restarts the system. It takes about 45 seconds.
	Light Default	Resets all parameters except for TCP/IP settings. This restore will be followes by about 45 seconds system reset.
	Factory Default	Resets all parameters to Factory Default setting. This will be followed by about 45seconds system reset.
Image/Camera Initialization	Reset Log	Deletes all Log Message.
	Delete Image	Deletes all Alarm Images from the internal Flash Memory.
	Reboot Mecha	Restart the camera mecha and Camera's Condition parameters.
System Upgrade	Upgrade	Use this to upgrade the system. Select locations of upgrade file in client PC and click upgrade button. This will be followed by one-minute system restart. (Note) Please do not disconnect power and LAN cable from the XPEED-XNET while the upgrade is in process. It might cause a system error. Upgrade File can be downloaded from http://www.cnbtec.com
BackUp	Backup	This saves current configurations in client PC. Back up file can be restored to other XPEED-XNET cameras for only network status. This will be followed by about 45 seconds system reset.
Restore	Restore	This loads up settings from a saved Backup file. Click restore button after selecting backup files in Client PC. Optional check boxes can be used to select settings to be excluded from the restore process. - except TCP/IP parameters : Exclude TCP/IP settings. - except Users parameters : Exclude Users settings. - except IP Filter parameters : Exclude IP Filter setting. This will be followed by a one-minute system reset.

5. IP network Part

⊙ Generating Log Report

Log report contains detailed information about XPEED-XNET's image,setup, and error.

Click [▷ Log Report] button to open the pageshown in Figure 5-10.

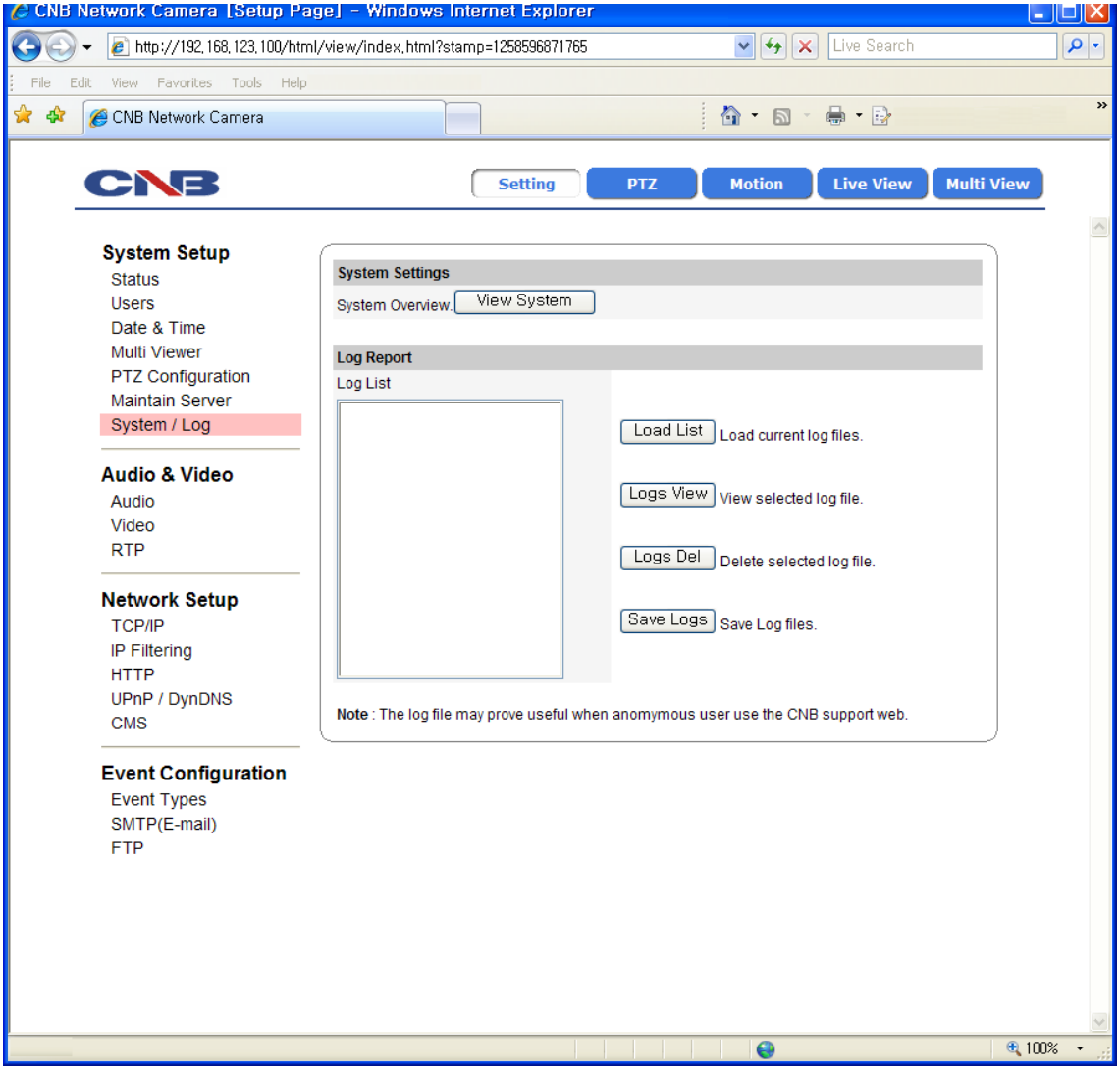


Figure 5-10 Log report page

Field	Sub Field	Description
System Settings	System Overview	Displays current configurations for XPEED-XNET option pages.
Log Report	Load List	Loads up Log Messages file stored in the XPEED-XNET product. Log Message file can be sorted with date and index. Click Load List button to view messages list in the Listbox.
	Logs View	Select a file from the Log List and click Logs view button to view.
	Logs Del	Select a file from the Log List and click Delete button to delete.
	Save Logs	Select a file from the Log List and click Save Logs button to save the file to PC.

5. IP network Part

⊙ Configuring Audio

XPEED-XNET's Audio features can be configured in this page.

Click [▷ Audio] button to open the page shown in Figure 5-11.

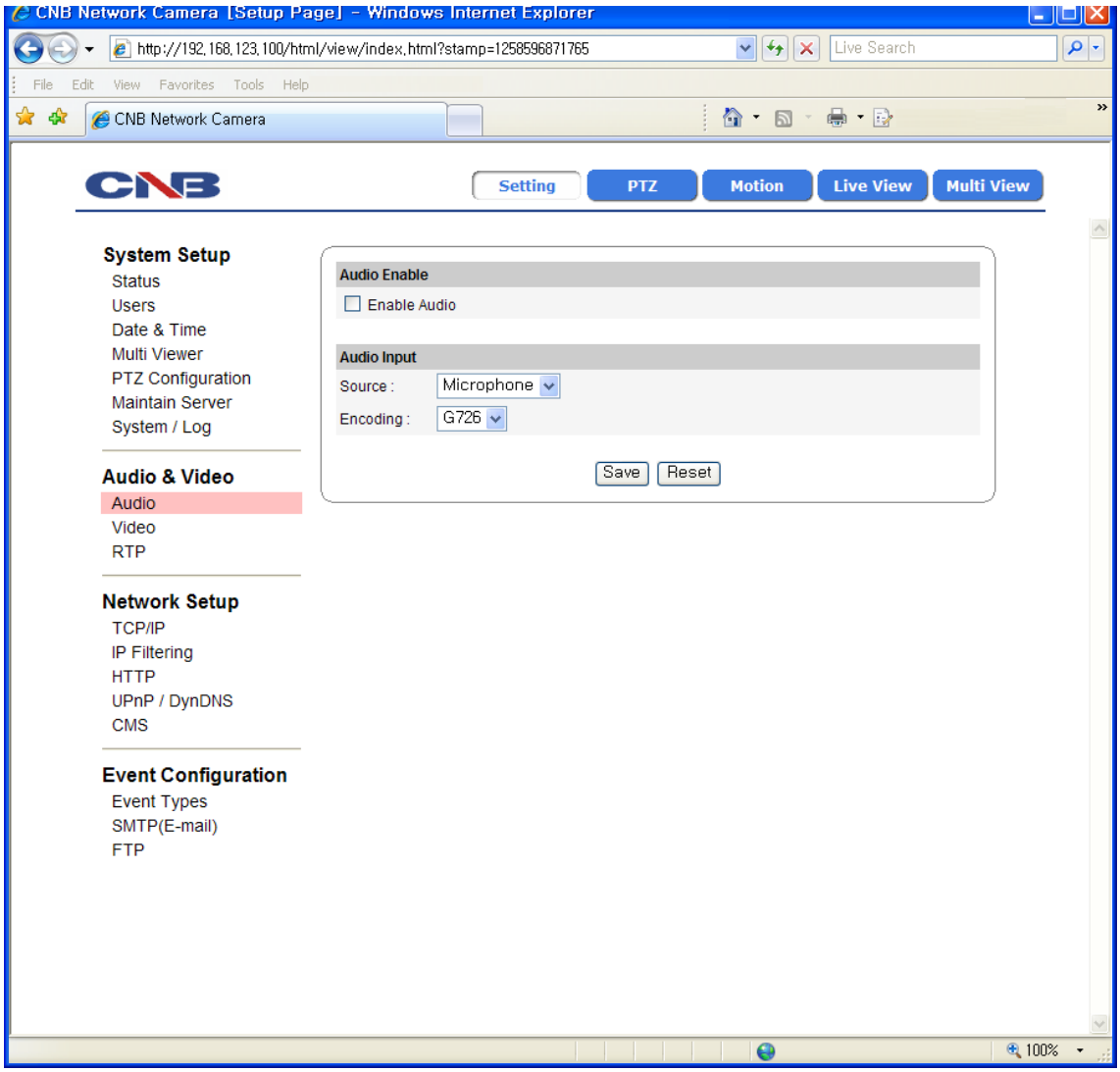


Figure 5-11 Audio configure page

Field	Sub Field	Description
Audio Enable	Enable audio	Enables or disables Audio feature. <Default : Disable>
Audio Input	Source	Select audio input source between Microphone and line<Default : Microphone>. Microphone input can be used when users send their voice over XPEED-XNET system. Line input takes the input from an audio device to send over XNET. Audio sent to XNET can be played at a Client's PC or an audio device.
	Encoding	Selects audio input Encoding method. <Default : G726> G726 and PCM can be selected.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Configuring Video

XPEED-XNET's video features can be configured in this page.

Click [▷ Video] button to open the page shown in Figure 5-12.

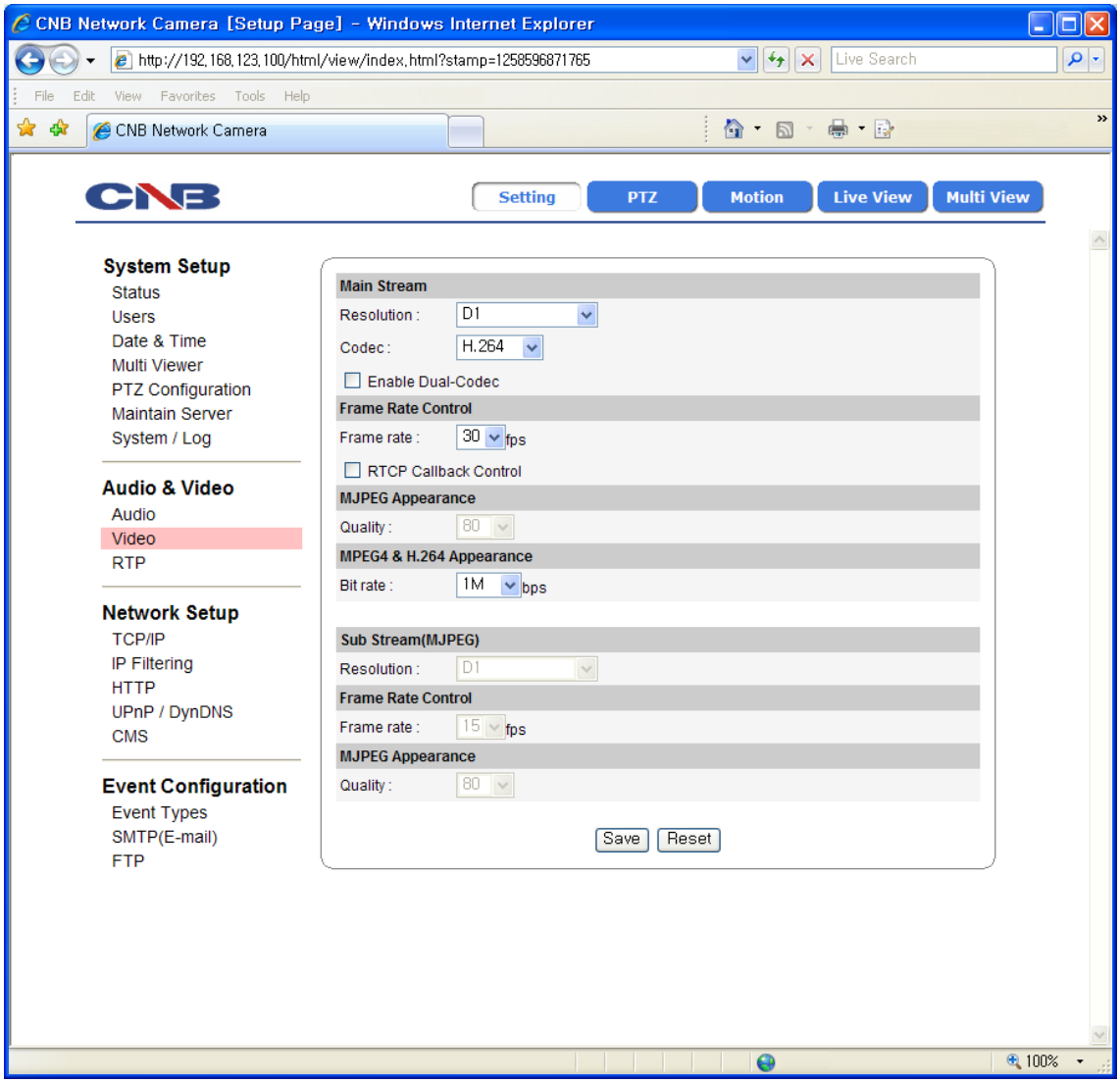


Figure 5-12 Video configure page

Field	Sub Field	Description
Main Stream	Resolution	Select a resolution of the video image. CIF D1 <Default : D1>
	Codec	Select Video Codec. Select among MJPEG , MPEG4, and H.264.
	Enable Dual-Codec	Turns Sub Stream feature on or off. <Default : Disable> Sub Stream output is in MJPEG with maximum 15 frame per second. When configuring, select Main Stream or Sub-Stream in the Index page. "Enable Dual-Codec checkbox" is enabled when Codec is set up as MPEG4 or H.264.
Frame Rate Control	Frame rate	Selects Frame rate of Video output. 1~30 Frame
MJPEG Appearance	Quality	Select MJPEG's video quality between 1- and 100.
Mpeg4&H.264 Appearance	Bit rate	Selects bit rate for MPEG4 or H.264 video signal between 128kbps and 3Mbps.
Sub Stream	Resolution	Selects resolution of sub stream video among CIF | D1.
Frame Rate Control	Frame rate	Select Frame rate of sub stream video between 1 ans 15 frames per second.
MJPEG Appearance	Quality	Select sub stream video quality between 10 and 100.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Configuring RTP/RTSP

This is related to XPEED-XNET's DDNS server information.

Click [▷ RTP/RTSP] to open the page shown in Figure 5-13.

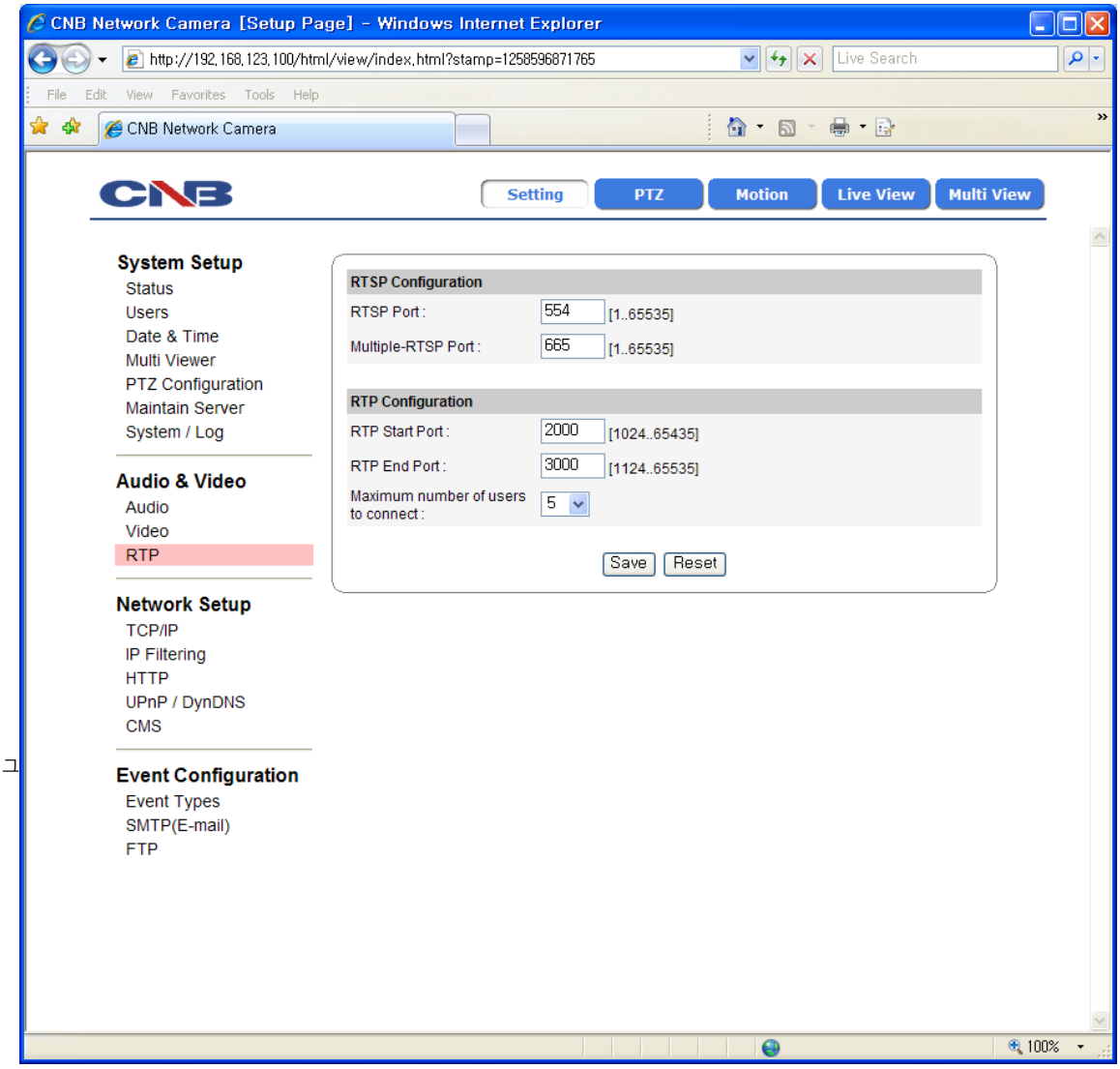


Figure 5-13 RTP/RTSP page

Field	Sub Field	Description
RTSP Configuration	RTSP Port	Enter RTSP Port of the Main Stream between 1 and 65535. The default is 554.
	Multiple-RTSP Port	Enter RTSP Port of the Sub Stream between 1 and 65535. The default is 665.
RTP Configuration	RTP Start Port	Enter RTP Start Port between 1024 and 65534. The default is 2000.
	RTP End Port	Enter RTP End Port between 1124 and 65535. The default is 3000.
	Maximum number of Connection	Enter the maximum allowable number of users connected to the Stream between 1 and 10.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Configuring the Network(TCP/IP) parameters

This configures XPEED-XNET's network related parameters.

Click [▷ **TCP/IP**] button to open the page shown in Figure 5-14.

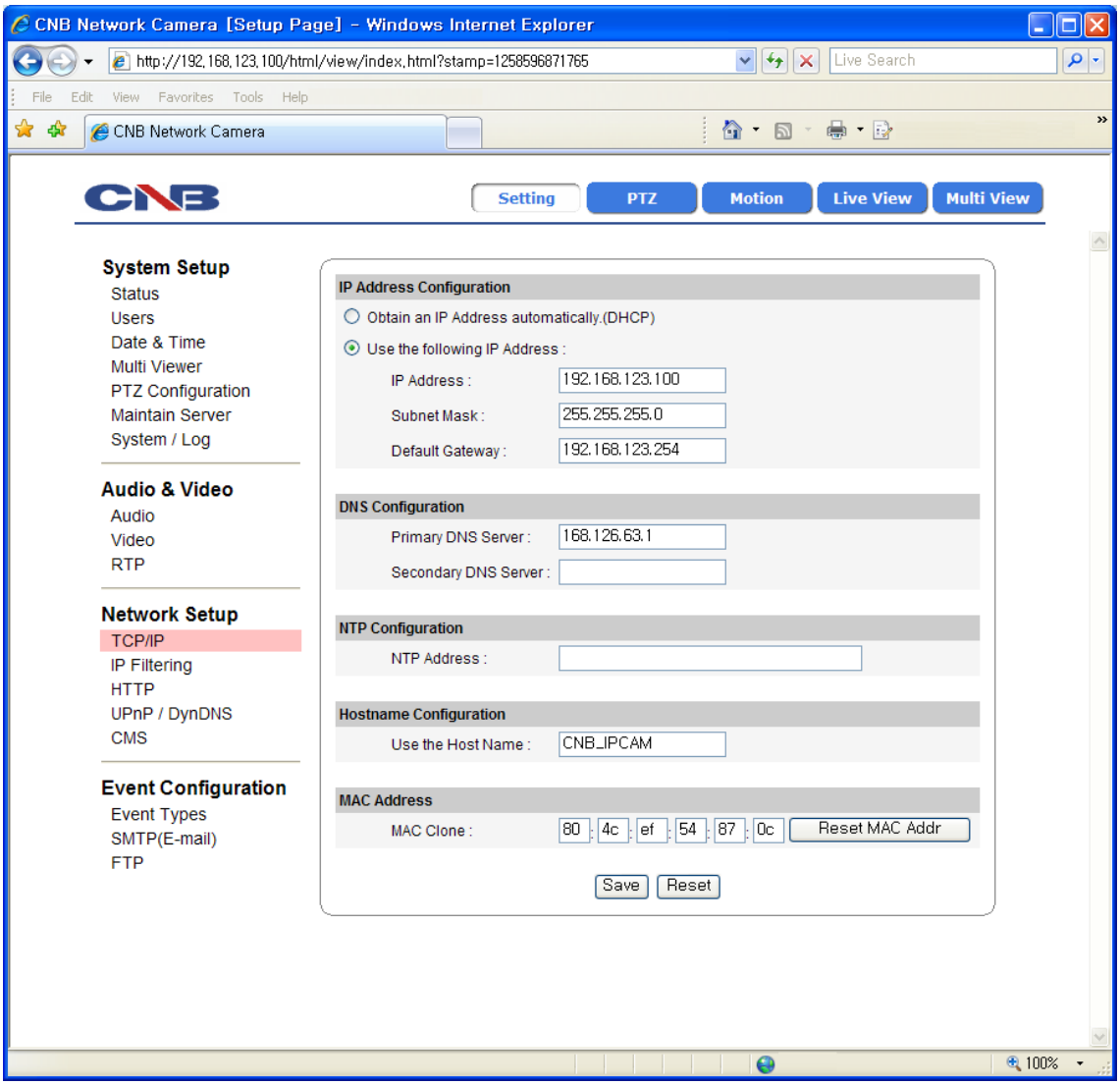


Figure 5-14 Network Setup page

Field	Sub Field	Description
IPv4 Address Configuration	Enable DHCP (default)	Turns DHCP on or off. Check DHCP checkbox to get an IP address automatically from the network using DHCP protocol. Obtained IP address can be viewed by IP Installer. (Note) If the network does not use DHCP server, the product will wait for server's response for two minutes and restart with its previous IP address.
	IP address	Enter an IP address. Configure IP address after checking IP address range configuration of the router where the XNET product is connected.
	Subnet mask	Enter Subnet mask. Use this when you want to access only from the same subnet by masking out upper portion of the IP address. Use 255.255.255.255 when you want to connect from one PC only.
	Default router	Enter the address of Default router.
DNS Configuration	Domain name	Enter Domain name.
	Primary DNS Server	Enter primary DNS address.
	Secondary DNS Server	Enter secondary DNS address.
NTP Configuration	Network address	Enter address of NTP (Network Time Protocol Server.) NTP server is used when "Synchronize to NTP Server" is selected in Date&Time page.
Host name Configuration	User the host name	Enter Host name
Ethernet(MAC) Address	MAC address	Enter Ethernet Address.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Configuring IP Filtering

This configures IP Filters for XPEED-XNET product.

Click [▷ **IP Filtering**] button to open the page shown in Figure 5-15.

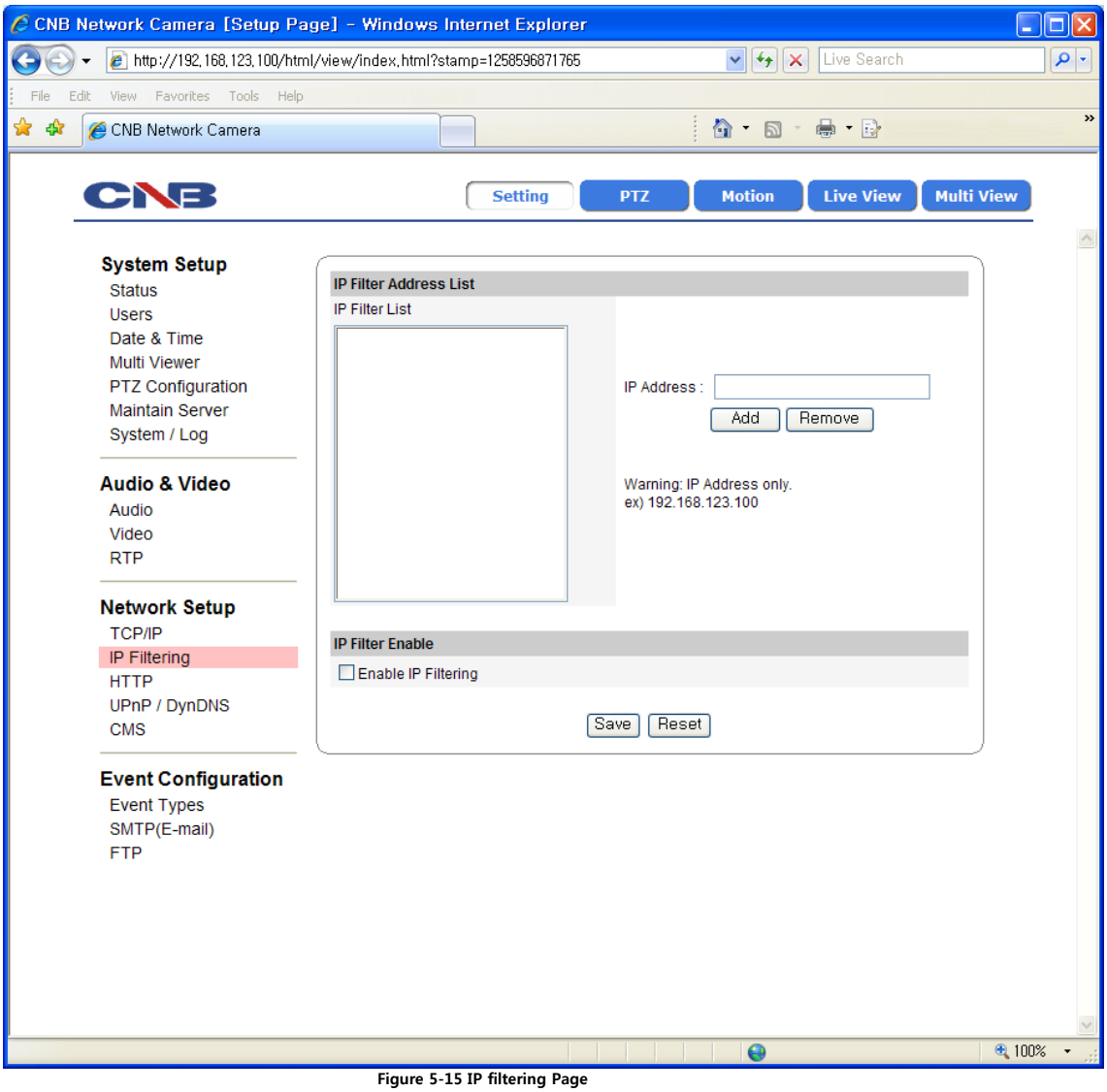


Figure 5-15 IP filtering Page

Field	Sub Field	Description
Filter IP List	-	Displays list of currently established IP Filters.
Add	-	Adds an IP address to filter out. Enter the IP Address to block and click add button to add it to IP Filtering listbox. The updated list can be viewed in IP Address Listbox. - Up to 20 IP addresses can be added.
Remove	-	Removes an IP address from IP Filtering listbox. Select the IP address to remove and click Remove button to remove it from the list. The updated list can be viewed in IP Address Listbox.
IP Filter Enable	Enable IP Filtering	Turns the IP Filter on or off. When turned on, XNET product will not be accessed from the IP addresses in IP Filtering Listbox.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Configuring HTTP

This configures HTTP port to access XPEED-XNET's webpage.

Click [▷ **HTTP**] button to open the page shown in Figure 5-16.

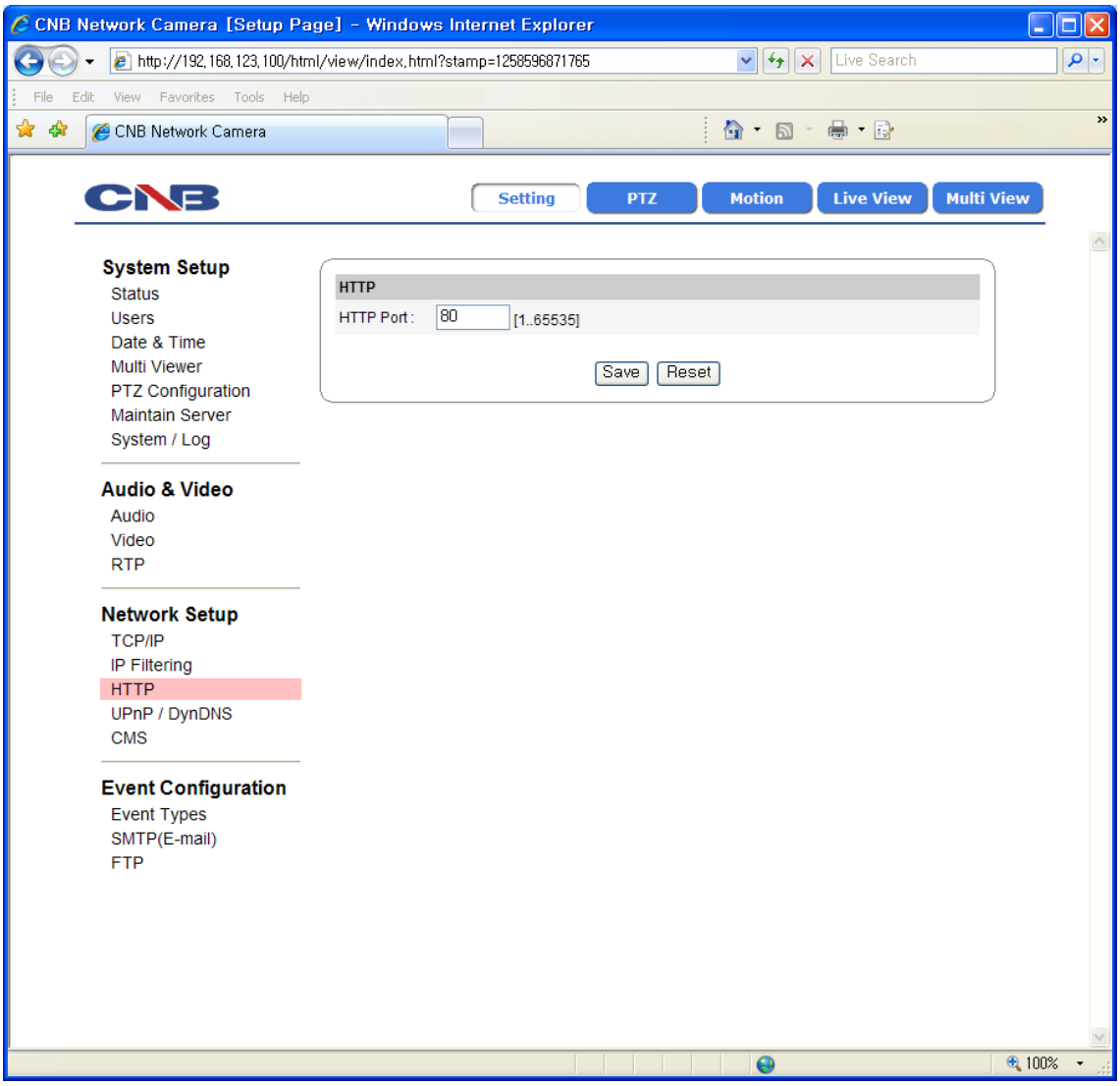


Figure 5-16 HTTP Page

Field	Sub Field	Description
HTTP	HTTP port	Enter HTTP Port to access the webpage. Default port is 80, and any other port number has to be entered at the end of the ip address when accessing. (Ex: When using HTTP Port 8080, enter http://192.168.123.100:8080)
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Configuring UPnP/DynDNS/Bonjour

UPnP is a protocol for IP installer software. You can enable or disable this UPnP, and you can also use a Friendly Name.

DynDNS configures XPEED-XNET's DDNS server information.

Click [▷ **UPnP/DynDNS**] to open the page shown in Figure 5-17.

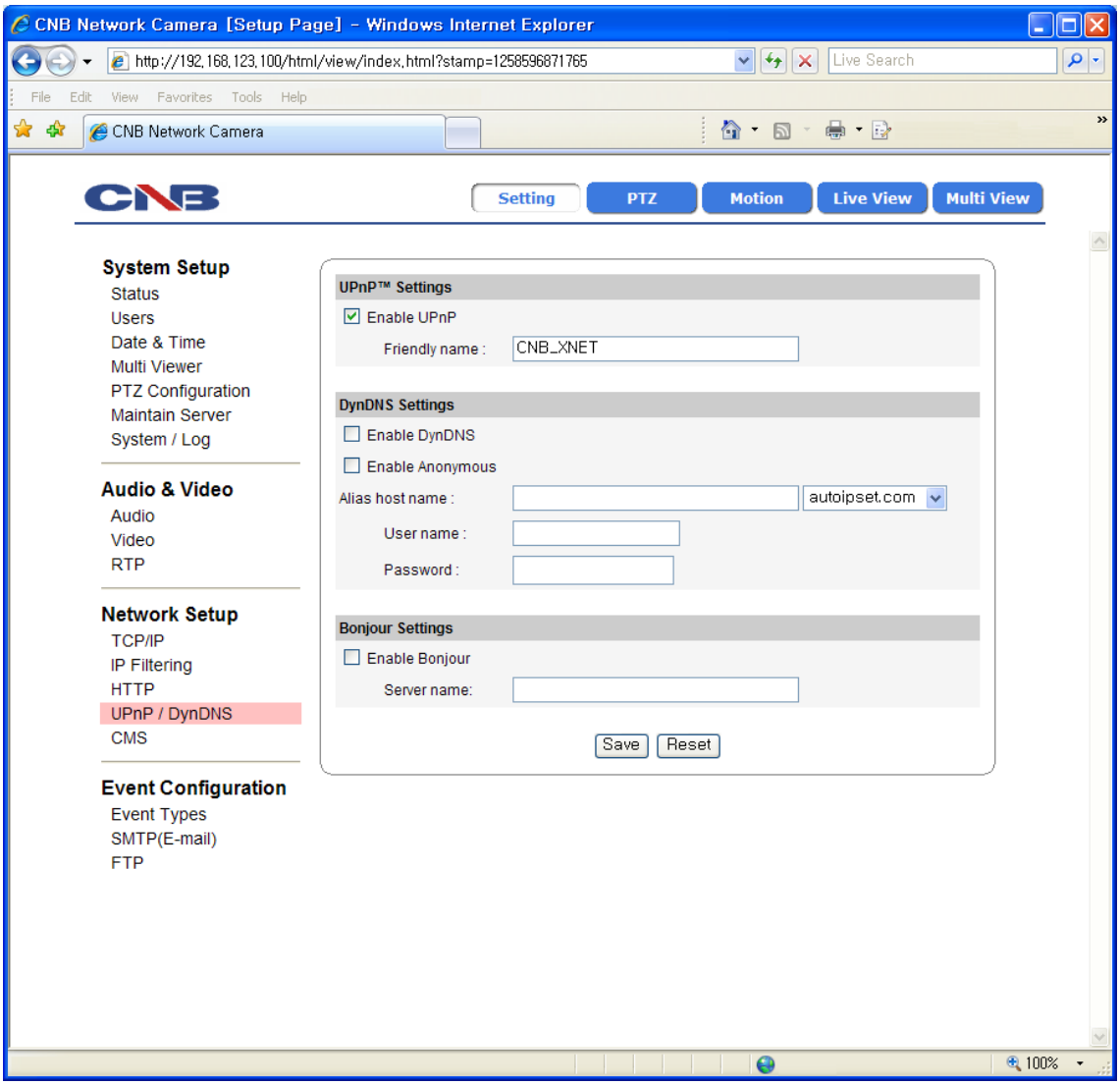


Figure 5-17 UPnP/DynDNS Page

Field	Sub Field	Description
UPnP Setting	Enable UPnP	Enables or disables UPnP. When enabled, you can use IP Installer's XNET Auto Search feature.
	Friendly Name	Enter UPnP's Friendly Name.
DynDNS Setting	Enable DynDNS	Enables or disables DynDNS. When enabled, you can automatically obtain a domain from DDNS server by simply registering the XNET product.
	Enable Anonymous	Enables or disables DynDNS Anonymous feature. When enabled, DDNS service is used without going through authentication at Autoipset.com DDNS server.
	Alias Host Name	Enter a Host Name for the DynDNS server.
	User Name	Enter a user Name for the DynDNS server.
	Password	Enter a password for the DynDNS server.
Bonjour Setting	Enable Bonjour	Enables or disables Bonjour. When enabled, you can use IP Installer's XNET Auto Search feature.
	Server Name	Enter Bonjour's Server Name.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Configuring CMS

This configures XPEED-XNET's CMS server infomation.

Click [▷ **CMS**] to open the page shown in Figure 5-18.

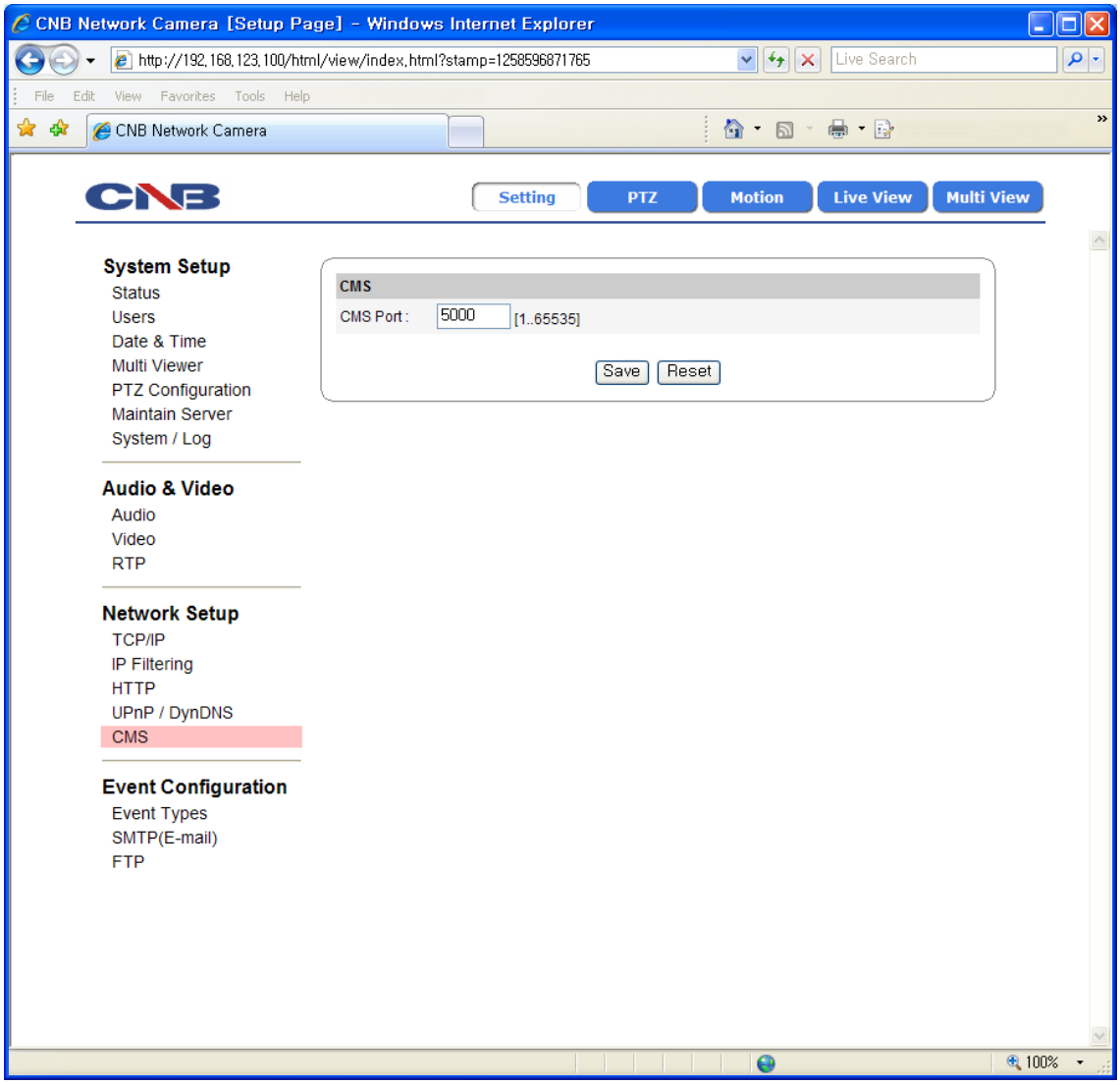


Figure 5-18 CMS Page

Field	Sub Field	Description
CMS	CMS Port	Enter CMS port number for communication with CMS between 1 and 65535. The default is 5000.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Configuring Event Type

This is related to XPEED-XNET's DDNS Server information.

Click [▷ **Event Types**] to view page shown in Figure 5-19.

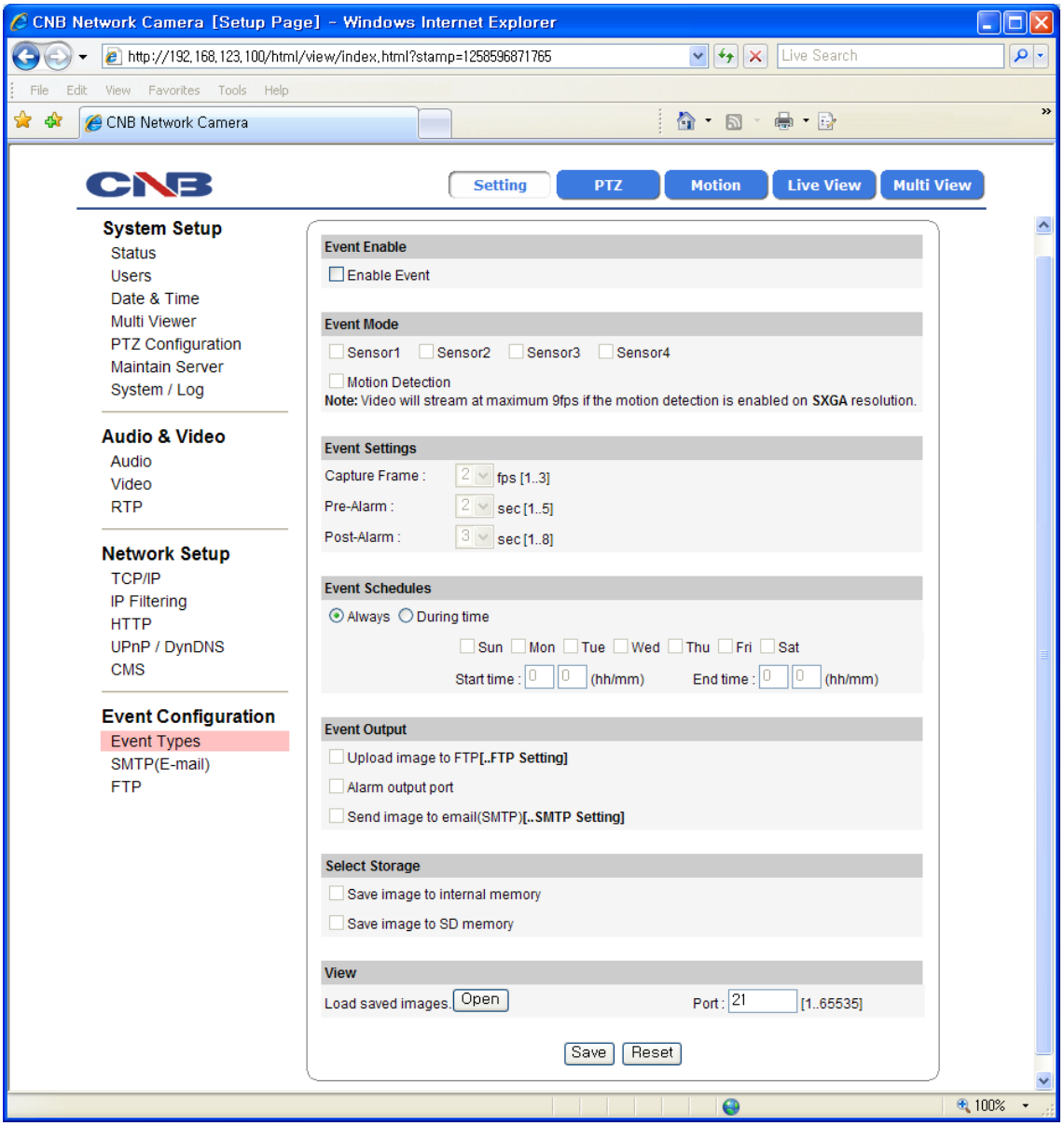


Figure 5-19 Event Types page

Field	Sub Field	Description
Event Enable	Enable Event	Enables or disables event processing. <Default : Disable> <Note for users> When this is enabled in the D1 Mode, the transmitted fame rate is reduced by up to 15 fps.
Event Mode	Sensor	Enables or disables the Alarm sensor.
	Motion Detection	Enables or disables Motion Detection.
Event Setting	Capture Frame	When processing an event, this establishes the number of images to be saved per second. It can be selected between 1 and 3.
	Pre-Alarm	When processing an event, this establishes saving images before the occurance of the event. It can be between 1 and 5 seconds before the event, and the number of the images to be saved gets determined by the Capture Frame rate.
	Post-Alarm	When processing an event, this establishes saving images after the occurance of the event. It can be between 1 and 8 seconds after the event, and the number of the images to be saved gets determined by the Capture Frame rate.
Event Schedules	Event Schedules	Enables or disables scheduled event monitoring. When Always is selected while Event (Alarm) is activated, the unit will monitor event (Alarm.) all the time. During Time is selected while Event (Alarm) is activated, the unit will monitor event (Alarm.) during the time period specified.
	Event Schedules Setting	Specifiy schedule for Event (Alarm) monitoring. Event (Alarm) is monitored according to the schedule specified here.
Event Output	Upload image to FTP	This allows Alarm images to be uploaded to an FTP server when processing an event. The client PC has to run FTP server to receive the images, and the information of the FTP server has to be accurately entered and saved at the FTP Cofiguration page.
	Alarm Output Port	This sends out Alarm signal to its output port during event processing.
	Send Image to Email	This allows Alarm images to be sent out by an e-mail when processing an event. Only one image file at the moment of the event gets sent out. The e-mail address has to be accurately entered and saved at SMTP configuration page.
Select Storage	Save Image to Internal Memory	This allows Alarm images to be saved in the internal memory. Saved image can get transferred to the client's PC by using save image button at system configuration page.
	Save Image to SD Memory	This allows Alarm images to be saved in the external memory (SD Card). SD card has to be properly installed and recognized for this feature. (Not Supported x27/x36)
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ SMTP Setup

This configures mailing out method of alarm Images once event occurred in the XPEED-XNET system.

Click [▷ **SMTP**] button to open the page shown in Figure 5-20.

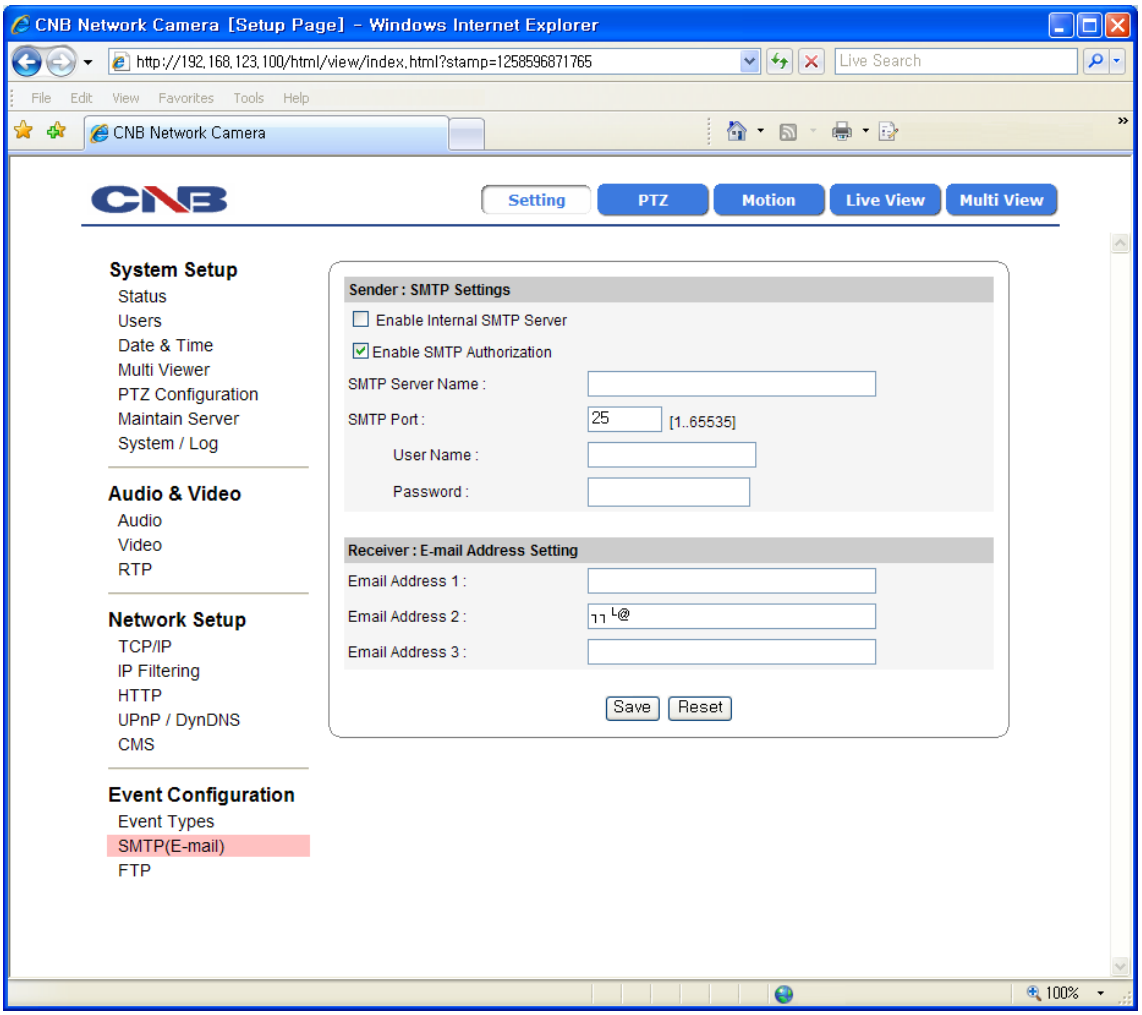


Figure 5-20 SMTP Page

Field	Sub Field	Description
SMTP Settings	Enable Internal SMTP Server	Turns Internal SMTP Server on or off. When this box is checked, Alarm Image gets mailed out through an internal mail server. Mail Authentication cannot be used in this mode. When this box is unchecked, Alarm Image gets mailed out through an external mail server. Mail Authentication, port, user, password, mail address, etc. needs to be configured.
	Enable SMTP Authorization	Enables or disables the use of SMTP authorization when using external mail server.
	SMTP Server Name	Enter the name of external mail server.
	SMTP Port	Enter the port number for the external mail server.
	User name	Enter the user name of the external mail server.
	Password	Enter the password of the external mail server user.
E-mail Address Setting	Email Address	Enter the e-mail address of the external mail server user.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

5. IP network Part

⊙ Configuring FTP

This configures How the Alarm Images get sent out using FTP once event occurred in the XPEED-XNET system..

Click [▷ **FTP**] button to open the page shown in Figure 5-21.

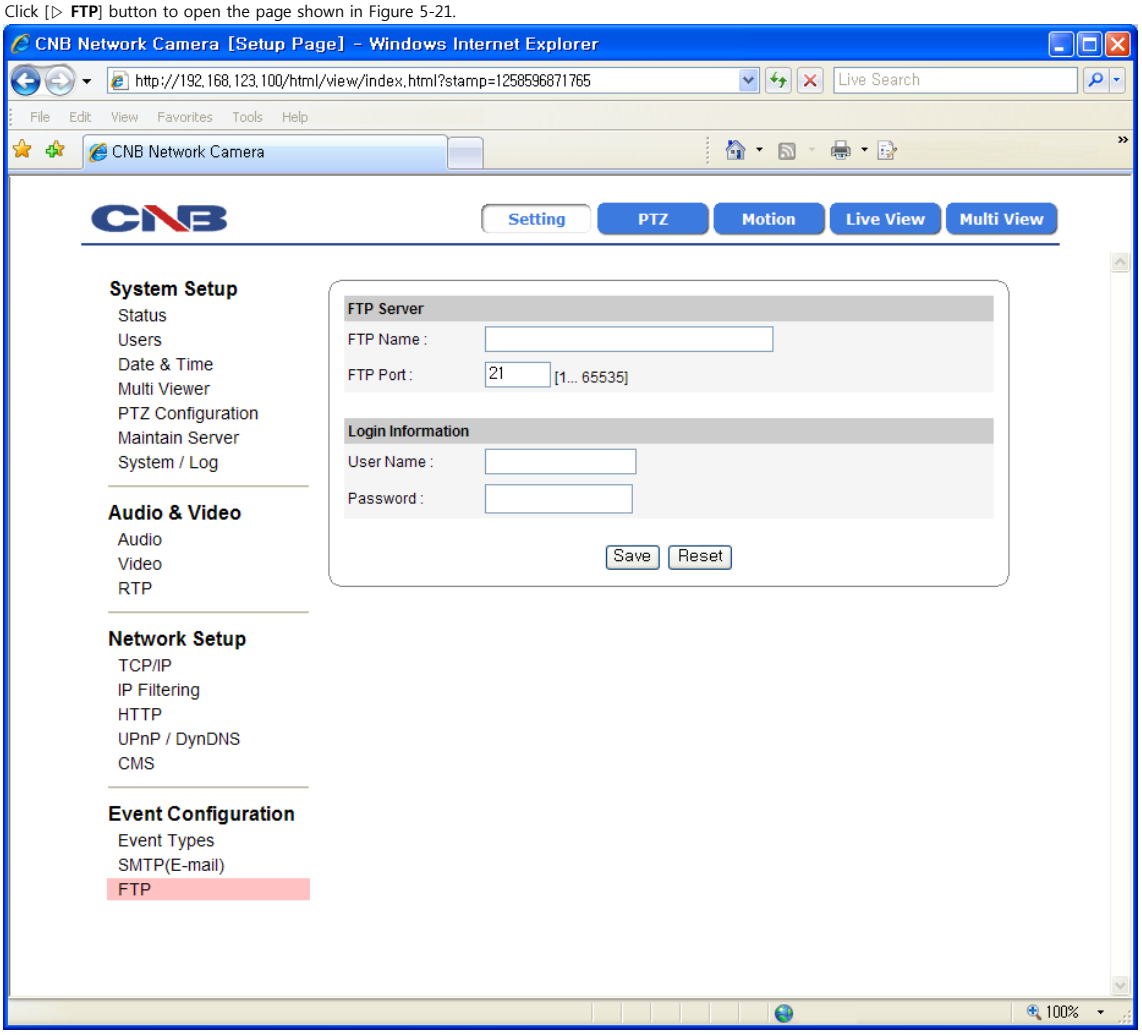


Figure 5-21 FTP Page

Field	Sub Field	Description
FTP Server	FTP Name	Enter the address of the FTP server to send Alarm Images to in the event processing. The client PC at that IP address has to run the FTP server in order to receive the Alarm Images.
	FTP Port	Enter the port number for the FTP server to send Alarm Images to in the event processing.
Login Information	User Name	Enter the user name of the FTP server to send Alarm Images to in the event processing.
	Password	Enter the password of the FTP server to send Alarm Images to in the event processing.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

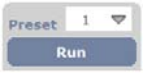
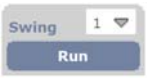
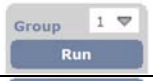
5. IP network Part

⊙ Configuring and operating Network PTZ

This controls XPEED-XNET's Speeddome PTZ.

Click PTZ button in Operator mode to open the page shown in Figure 5-22.

Figure 5-22 PTZ page

Field	Sub Field	Description
	Direction Key	This moves the viewable area within the active CCD region. From the center, it can be moved two click positions in the the positive/negative x/y direction. This button moves origin point.
	Tele/Wide	When push Tele button, camera go Zooms In. When push Wide button, camera go Zooms Out.
	Near/Far	When push Near button, camera go Focus In. When push Far button, camera go Focus Out.
	Iris-/Iris+	When push Iris- button, camera go to close the IRIS. When push Iris+ button, camera go to open the IRIS.
	set	Saves the current position to the values in the Preset Edit box.
	del	Deletes the current position to the values in the Preset Edit box.
	go	Moves the PTZ to the defined Preset position.
		Start to save for Pattern.
		End to save for Pattern.
	Run	Runs Pattern.
	-	Runs defined Swing.
	-	Runs defined Group .
	-	Stops running the Pattern, Swing, and Group.

5. IP network Part

⊙ Configuring Motion Detection area

This defines area that detect motion, and up to three different areas can be defined in each channel.

Click Motion button in Operator mode to open the page shown in Figure 5-23.

Figure 5-23 Motion Detection Page

Field	Sub Field	Description
Area	-	Displays currently defined Motion Detection area. When an area is selected from the list, its defined area gets displayed and highlighted in viewer window. Up to 3 motion detection area can be defined.
Show selected area	-	When this is checked, only the selected area gets displayed in viewer window.
Caption	-	Enter designation for each area.
Sensitivity	-	Sets sensitivity for detecting motions, "1" being the least sensitive and "10" being the most sensitive. The user needs to configure this according to their applications and circumstances.
Defining Motion Detection Area	-	1. Enter a designation in the caption bar, and set sensitivity. 2. Click "Add" button. 3. A square with the designation you've just defined will appear in viwer window. 4. The size of the square can be adjusted by clicking and dragging its lower right corner, and the position can be adjusted by dragging the square. 5. Click "Save" button once you are done definging the areas.

5. IP network Part

⊙ Configuring Multi View Option

This configures viewing of up to 4 different camera images simultaneously..

Click Multi View button in Administrator mode to open the page shown in Figure 5-24.

The video from the XPEED-XNET product gets displayed on top left, and the rest display video signals coming from the IP addresses defined in the Multi-viewer Setup page.

Figure 5-24 Multi-View Page

MEMO

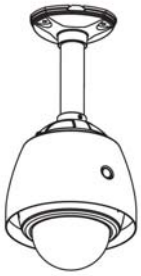
6. Specifications

⊙ 27x Models (ISS2765N(P))

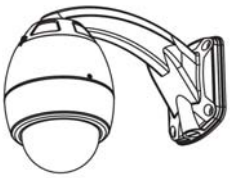
Video Signal		NTSC	PAL
Camera	Image Pick-up Device	1/4" SONY Super HAD CCD	
	Effective Pixels	811(H) x 508(V) 410K	795(H) x 596(V) 470K
	Horizontal Resolution	768(H) x 494(V) 380K	752(H) x 582(V) 440K
	Resolution	480 TV Line	
	S/N Ratio	48 dB (AGC Off)	
	Zoom	27x Optical Zoom, 10x Digital Zoom	
	Focal Length	f=3.6(Wide) - 97.2(Tele)mm	
	Aperture Range	F1.6(Wide)-3.7(Tele)	
	Minimum Illumination	1.2Lux (30 IRE)Color / 0.25Lux (30 IRE) B/W / 0.001 Lux (30 IRE) DSS_128FLD	
	Day & Night	Auto / Day /Night	
	Focus	Auto / Manual / SemiAuto	
	Iris	Auto / Manual	
	Shutter Speed	Auto (x128 ~ 1/60 sec ~ 1/10,000 sec)	
	AGC	Normal / High / Off	
	White Balance	Auto / Manual(Red, Blue Gain Adjustable)	
	BLC	NORMAL,C,L,U,D,R HIGH/LOW(6 Area Selectable)	
	Flickerless	On / Off	
	Brightness	Adjustable (0-96)	
Pan/Tilt	Operation Range	Pan 360 ° (Endless) / Tilt 90 °	
	Operation Speed	Preset : 360 ° / sec	
		Manual : 1 ~ 360 ° / sec (inter-locked with zoom extension)	
		Swing : 1 ~ 180 ° /sec	
	Preset Setting	127 presets (label setting, individual video setting)	
	Swing Setting	8 swings	
	Pattern Setting	4 pattern (1200 commands / pattern, 5 min)	
	Group Setting	8 groups (20 actions / group)	
	Other Functions	Auto Flip, Auto Parking, Power Up Action	
Network	Compression	SMJPEG/MPEG4/H.264	
	Resolution	D1,CIF	
	Video Streaming	MJPEG/MPEG4(or H.264) dual mode	
	Audio	Two-way(full duplex/ADPCM G.726)	
	Frame rate	Dual Mode(MJPEG(15fps), MPEG4/H264(25fps))	
	Protocol	IPv4,HTTP,TCP,RTSP,RTP,RTCP,UDP,DHCP,UpnP,ARP,DNS DynDNS,Bonjour..	
	Connected count at a time	Camera live viewer for up to 10 clients	
	Supported DDNS	1.CNB DDNS 2.DynDNS.org 3. Reference code with SDK	
	Network Security	IP Filtering	
General	Privacy Zone(Option)	8 Zones	
	Alarm I/O	4 inputs / 2 outputs	
	OSD Menu	On / Off	
	Input Voltage	24VAC (19VAC ~ 29VAC)	
	Input Power	48VA	
	Fuse	2A	
	Dimension	Dome ⌀ 149	
		Housing : ⌀ 209.7 x 247.2(H) mm (without Sun-Sheild)	
	Weight(Approx.)	3.8kg (without Sun-Sheild) / 4.3kg (with Sun-Sheild)	
	Operational Temperature	-30 °C -+ 50 °C	

■ **Types by installation**

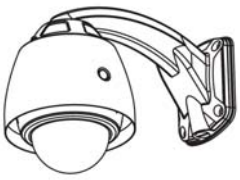
Pendant Mount



Pendant Mount (Sun-Shield)



Wall Mount



Wall Mount (Sun-Shield)

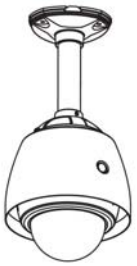
6. Specifications

⊙ 36x EXview Models (ISS2965N(P)X)

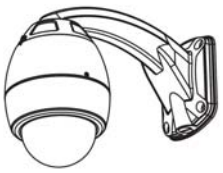
Video Signal		NTSC	PAL
Camera	Image Pick-up Device	1/4" SONY EXview HAD CCD	
	Effective Pixels	768(H) x 494(V) 380K	752(H) x 582(V) 440K
	Horizontal Resolution	530 TV Lines	
	S/N Ratio	50 dB (Weight ON)	
	Zoom	36x Optical Zoom, 12x Digital Zoom	
	Focal Length	f=3.4(Wide) ~ 122.4(Tele)mm	
	Aperture Range	F1.6(Wide) ~ 4.5(Tele)	
	Minimum Illumination	1.4 Lux 1/60 sec(NT), 1/50 sec(PAL) 0.1Lux 1/4 sec(NT), 1/3 sec(PAL) 0.01Lux 1/4 sec(NT), 1/3 sec(PAL) : ICR-ON	
	Day & Night	Auto / Day / Night / WDR	
	Focus	Auto / Manual / SemiAuto	
	AE Mode	Auto / Iris / Shutter / Manual / Brightness	
	White Balance	Auto / Manual(Red, Blue Gain Adjustable)	
	BLC	On / Off / WDR	
	Flickerless	On / Off	
Pan/Tilt	Operation Range	Pan 360 ° (Endless) / Tilt 90 °	
	Operation Speed	Preset : 360 ° / sec	
		Manual : 1 ~ 360 ° / sec (inter-locked with zoom extension)	
		Swing : 1 ~ 180 ° /sec	
	Preset Setting	127 presets (label setting, individual video setting)	
	Swing Setting	8 swings	
	Pattern Setting	4 pattern (1200 commands / pattern, 5 min)	
	Group Setting	8 groups (20 actions / group)	
	Other Functions	Auto Flip, Auto Parking, Power Up Action	
Network	Compression	SMJPEG/MPEG4/H.264	
	Resolution	D1,CIF	
	Video Streaming	MJPEG/MPEG4(or H.264) dual mode	
	Audio	Two-way(full duplex/ADPCM G.726)	
	Frame rate	Dual Mode(MJPEG(15fps), MPEG4/H264(25fps))	
	Protocol	IPv4,HTTP,TCP,RTSP,RTP,RTCP,UDP,DHCP,UpnP,ARP,DNS DynDNS,Bonjour..	
	Connected count at a time	Camera live viewer for up to 10 clients	
	Supported DDNS	1.CNB DDNS 2.DynDNS.org 3. Reference code with SDK	
	Network Security	IP Filtering	
General	Privacy Zone	8 Zones	
	Alarm I/O	4 inputs / 2 outputs	
	OSD Menu	On / Off	
	Input Voltage	24VAC (19VAC ~ 29VAC)	
	Input Power	48VA	
	Fuse	2A	
	Dimension	Dome ⌀ 149	
		Housing : ⌀ 209.7 x 247.2(H) mm (without Sun-Sheild)	
	Weight(Approx.)	3.8kg (without Sun-Sheild) / 4.3kg (with Sun-Sheild)	
	Operational Temperature	-30 °C -+ 50 °C	

■ **Types by installation**

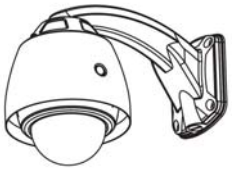
Pendant Mount



Pendant Mount (Sun-Shield)



Wall Mount

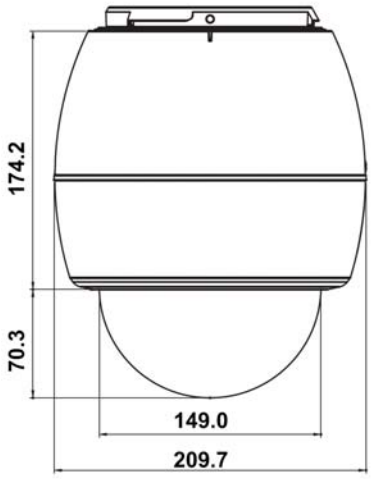


Wall Mount (Sun-Shield)

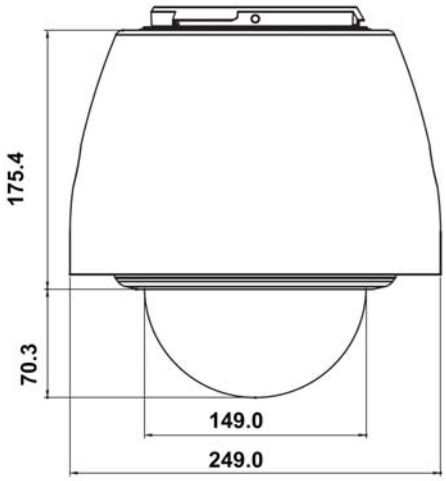
6. Specifications

⊙ Dimensional Drawings

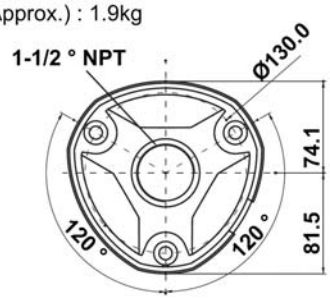
MAIN Body (without Sun-Sheild)
Weight (Approx.) : 3.8kg

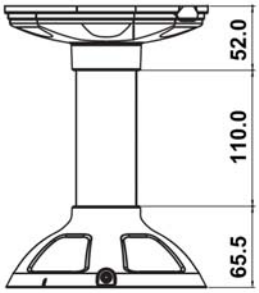


MAIN Body (without Sun-Sheild)
Weight (Approx.) : 4.3kg

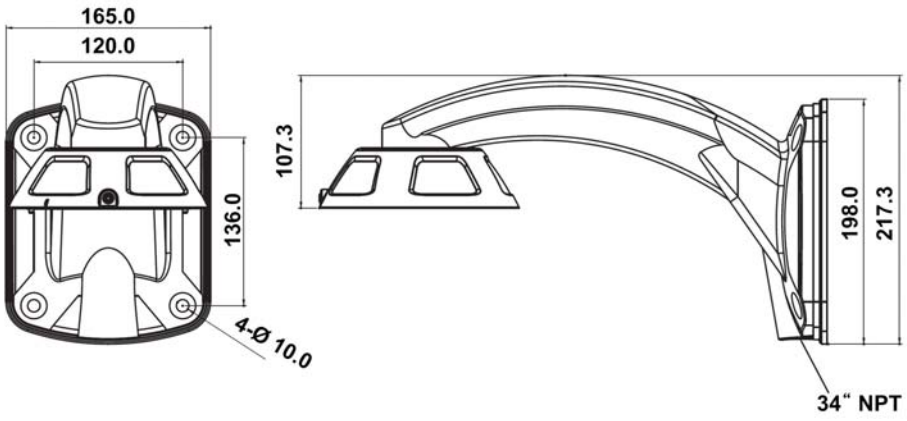


Pandant Mount Bracket
Weight (Approx.) : 1.9kg





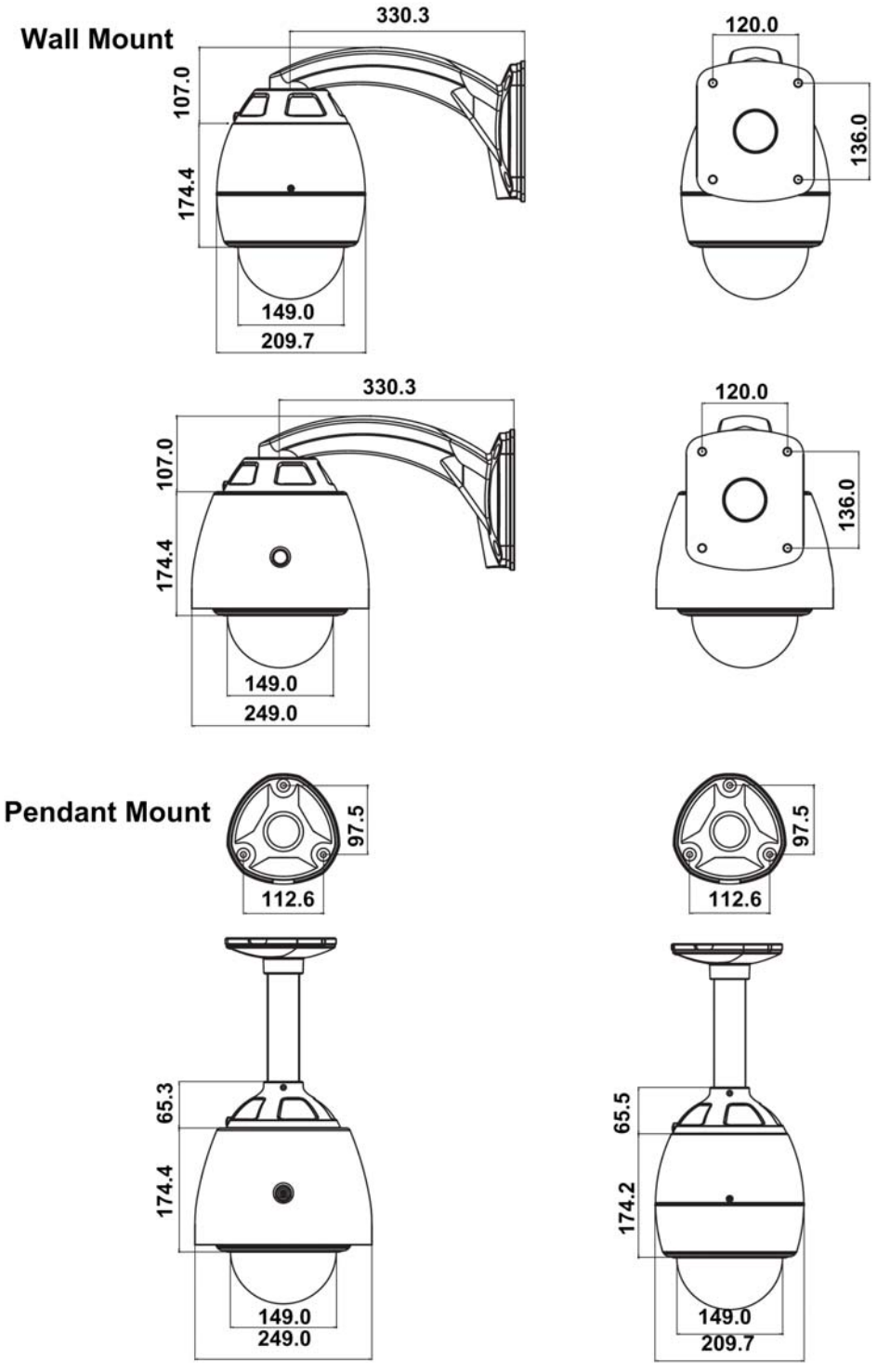
Wall Mount Bracket
Weight (Approx.) : 1.2kg



unit (mm)

6. Specifications

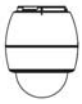
⊙ Dimensional Drawings



Unit (mm)

7. System Models & Related Accessories

⊙ System Model Numbers

Type / Image	27x Day/Night(ICR) Super HAD CCD	36x Day/Night(ICR) EXview HAD CCD	etc
Wall Mount Type Without Sun Shield	IS2765NW IS2765PW	IS2965NXW IS2965PXW	
Pendant Mount Type Without Sun Shield	IS2765NP IS2765PP	IS2965NXP IS2965PXP	
Wall Mount Type With Sun Shield	ISS2765NW ISS2765PW	ISS2965NXW ISS2965PXW	
Pendant Mount Type With Sun Shield	ISS2765NP ISS2765PP	ISS2965NXP ISS2965PXP	
S.Dome Camera Without Sun Shield 	IS2765N IS2765P	IS2965NX IS2965PX	
S.Dome Camera With Sun Shield	ISS2765N ISS2765P	ISS2965NX ISS2965PX	

⊙ Related Accessories

Wall Mount	**ISWB2000**
Pendant Mount	**ISPB2000**
Corner Mount	**SCB2000**
Pole mount	**SOB2000**
Sun Shield	**SSS2000**

MEMO